

**BEFORE THE
PUBLIC SERVICE COMMISSION OF
SOUTH CAROLINA**

DOCKET NO. 2019-1-E

In the Matter of)	SUPPLEMENTAL DIRECT
Annual Review of Base Rates)	TESTIMONY OF
for Fuel Costs for)	DANA M. HARRINGTON FOR
Duke Energy Progress, LLC)	DUKE ENERGY PROGRESS, LLC

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Dana M. Harrington, and my business address is 550 South Tryon
3 Street, Charlotte, North Carolina.

4 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING?**

5 A. Yes, on April 26, 2019, I caused to be pre-filed with the Commission my direct
6 testimony and 14 exhibits.

7 **Q. YOUR SUPPLEMENTAL TESTIMONY INCLUDES FIVE REVISED**
8 **EXHIBITS. WERE THESE SUPPLEMENTAL EXHIBITS PREPARED BY**
9 **YOU?**

10 A. Yes. These revised exhibits were prepared by me and consist of the following:

- 11 • Harrington Revised Exhibit 1: Calculation of Total Fuel Component;
- 12 • Harrington Revised Exhibit 9 page 2 of 2: Distributed Energy Resource
- 13 Program (“DERP”) Incremental (Over)/Under Recovery;
- 14 • Harrington Revised Exhibit 10: Calculation of DERP Incremental Costs
- 15 (Over)/Under Recovery;
- 16 • Harrington Revised Exhibit 11: Projected Distributed Energy Resource
- 17 Program Incremental Costs; and,
- 18 • Harrington Revised Exhibit 12: Projected Billing Period Incremental Cost
- 19 Factors for DERP Costs.

20 **Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY IN**
21 **THIS PROCEEDING?**

22 A. The purpose of my supplemental testimony is to update the proposed fuel rates to
23 reflect impacts resulting from the Commission’s directive issued on May 8, 2019

1 in the DEP SC base rate case, Docket No. 2018-318-E. The Commission approved
2 utilization of \$6 million of the unamortized SC DERP rebate balance to offset the
3 excess deferred income tax balance to be returned to customers. As a result, this
4 amount has been removed from the solar rebate amortization component of DERP
5 incremental costs. This adjustment was anticipated and discussed on page 17 of
6 my direct testimony filed in this proceeding on April 26, 2019.

7 In addition, the Commission revised the authorized return on equity to 9.5%
8 effective June 1, 2019. This revision is reflected in the solar rebate carrying charge
9 component of DERP incremental costs as of that date.

10 **Q. HOW DID THE COSTS INCLUDED IN THE ESTIMATED PERIOD**
11 **CHANGE AS A RESULT OF THESE UPDATES?**

12 A. DERP incremental costs for the estimated period decreased approximately
13 \$354,000. The Company currently estimates that its deferred DERP incremental
14 cost balance will be an under-collection of approximately \$155,000 at June 30,
15 2019 as reflected on Harrington Revised Exhibit 9 page 2 of 2.

16 Harrington Revised Exhibit No. 10 presents the estimated deferred DERP
17 incremental cost under-collection at June 30, 2019 as a billing period monthly per-
18 account increment of \$0.06, \$0.10, and \$5.33, excluding Gross Receipts Taxes
19 (GRT), for South Carolina Residential, Commercial, and Industrial customers,
20 respectively.

21 **Q. HOW DID THE COSTS INCLUDED IN THE PROJECTED BILLING**
22 **PERIOD CHANGE AS A RESULT OF THESE UPDATES?**

1 A. DERP incremental costs for the projected billing period decreased approximately
2 \$814,000. Total DERP incremental costs are projected to be approximately \$3
3 million as reflected on Harrington Revised Exhibit No. 11.

4 Harrington Revised Exhibit No. 12 presents the projected DERP
5 incremental costs for the billing period as a billing period monthly per-account
6 increment of \$1.08, \$1.92, and \$140.17, excluding GRT, for South Carolina
7 Residential, Commercial, and Industrial customers, respectively. Proposed rates
8 are subject to per-account cost caps.

9 **Q. WHAT IS THE RATE IMPACT OF THESE UPDATES?**

10 A. The revised Residential and Industrial monthly per-account charges for DERP
11 incremental costs remain above the per-account cost caps; therefore, the proposed
12 monthly DERP incremental per-account charge remains \$1.00 for Residential
13 customers and \$100.00 for Industrial customers, including GRT. The reduction of
14 DERP Incremental costs for the estimated and projected periods reduced the
15 proposed monthly per-account charge for Commercial customers from \$2.78 to
16 \$2.03, including GRT.

17 **Q. DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL**
18 **TESTIMONY?**

19 A. Yes, it does.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF TOTAL FUEL COMPONENT
BILLING PERIOD JULY 1, 2019 TO JUNE 30, 2020

Harrington Revised Exhibit 1
Docket No. 2019-1-E

			Customer Class			
Line No.	Description	Reference	Cents / kWh			
			Residential	General Service (non-demand)	Lighting	General Service (demand)
Base Fuel Costs						
1	Base Fuel Cost Component (Over) / Under Collection at June 2019	Exhibit 2	0.125	0.125	0.125	0.125
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	1.950	1.950	1.950	1.950
3	Total Base Fuel Cost Component	Line 1 + Line 2	2.075	2.075	2.075	2.075
4	Total Base Fuel Cost Component Increased for RECD	Line 3 / (1-RECD factor)	2.090	[1]		
Capacity Related Cost						
5	Capacity Related Cost Component (Over) / Under Collection at June 2019	Exhibit 7	0.040	(0.001)	0.000	3
6	Capacity Related Cost Component Projected Billing Period	Exhibit 8	0.652	0.523	0.000	89
7	Total Capacity Related Cost Component	Line 5 + 6	0.692	0.522	0.000	92
8	Total Capacity Related Cost Component Increased for RECD	Line 7 / (1- RECD factor)	0.697	[1]		
Distributed Energy Resource Program (DERP) Avoided Costs						
9	DERP Avoided Cost (Over) / Under Collection at June 2019	Exhibit 13	0.000	0.001	0.000	0
10	DERP Avoided Costs Projected Billing Period	Exhibit 14	0.003	0.002	0.000	0
11	Total DERP Avoided Cost Component	Line 9 + 10	0.003	0.003	0.000	0
12	Total DERP Avoided Cost Component Increased for RECD	Line 11 / (1- RECD factor)	0.003	[1]		
Environmental Costs						
13	Environmental Component (Over) / Under Collection at June 2019	Exhibit 4	0.015	0.010	N/A	2
14	Environmental Component Projected Billing Period	Exhibit 5	0.059	0.047	N/A	8
15	Total Environmental Component	Line 13 + 14	0.074	0.057	N/A	10
16	Total Environmental Cost Component Increased for RECD	Line 15 / (1- RECD factor)	0.075	[1]		
17	Total Fuel Cost Factor - Cents/ kWh [2]	Line 4 + Line 8 + Line 12 + Line 16	2.865	2.657	2.075	2.075
18	Total Demand Fuel Cost Factor - Cents/ kW [2]	Line 7 + Line 11 + line 15				102
Distributed Energy Resource Program Incremental Cost per Account			Dollars			
			Residential	Commercial	Industrial	
DERP Incremental (Over) / Under Collection at June 2019						
19	Annual Charge	Exhibit 10	\$ 0.70	\$ 1.24	\$ 64.01	
20	Monthly Charge	Exhibit 10	\$ 0.06	\$ 0.10	\$ 5.33	
DERP Incremental Projected Billing Period						
21	Annual Charge	Exhibit 12	\$ 12.99	\$ 22.98	\$ 1,682.03	
22	Monthly Charge	Exhibit 12	\$ 1.08	\$ 1.92	\$ 140.17	
23	Total DERP Annual Charge - Excluding GRT	Line 19 + Line 21	\$ 11.95	\$ 24.22	\$ 1,194.68	
24	Total DERP Monthly Charge - Excluding GRT	Line 20 + Line 22	\$ 1.00	\$ 2.02	\$ 99.56	
25	Total DERP Annual Charge -Including GRT	Line 19 + Line 21 / (1-tax rate)	\$ 12.00	\$ 24.33	\$ 1,200.00	
26	Total DERP Monthly Charge - Including GRT	Line 20 + Line 22 / (1-tax rate)	\$ 1.00	\$ 2.03	\$ 100.00	

Notes:

[1] RECD factor is .7268% and is calculated on Exhibit 6

[2] The Fuel Cost Factors and Demand Fuel Cost Factor does not include GRT

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
1	Coal	Monthly Fuel Filings	\$ 17,145,758	\$ 18,513,246	\$ 19,497,564	\$ 39,029,152	\$ 31,935,236	\$ 35,433,012
2	Gas	Monthly Fuel Filings	51,139,383	32,952,831	38,250,706	47,081,262	62,286,934	58,693,966
3	Nuclear Fuel	Monthly Fuel Filings	13,884,551	12,471,756	16,473,119	15,148,148	17,540,348	18,004,976
4	Purchased Power	Monthly Fuel Filings	32,456,208	37,568,010	41,090,991	44,202,762	49,508,674	45,979,132
5	Fuel Expense Recovered Through Intersystem Sales	Monthly Fuel Filings	(8,046,009)	(7,345,506)	(5,428,354)	(5,994,539)	(22,280,970)	(20,530,519)
6	Total Fuel Costs	Sum Lines 1 through 5	\$ 106,579,891	\$ 94,160,337	\$ 109,884,026	\$ 139,466,785	\$ 138,990,222	\$ 137,580,567
7	Eliminate Avoided Fuel Benefit of SC NEM	Monthly Fuel Filings	33,455	27,921	35,183	34,483	61,989	75,147
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 106,613,346	\$ 94,188,258	\$ 109,919,209	\$ 139,501,268	\$ 139,052,211	\$ 137,655,714
9	Total System kWh Sales (w/ solar)	Monthly Fuel Filings	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
10	Eliminate NEM Solar Generation kWh	Monthly Fuel Filings	1,044,569	871,805	1,098,547	1,076,721	1,549,719	1,878,670
11	Adjusted Projected System kWh Sales (w/o solar)	Line 9 + Line 10	4,655,007,428	4,494,917,309	4,645,798,507	5,678,869,273	6,166,184,653	6,202,355,742
12	System Cost per kWh (¢/kWh)	Line 8 / Line 11 * 100	2.290	2.095	2.366	2.456	2.255	2.219
13	Actual/ Projected SC Retail Sales kWh (w/ solar)	Monthly Fuel Filings	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
14	Eliminate the NEM impact kWh	Monthly Fuel Filings	1,044,569	871,805	1,098,547	1,076,721	1,549,719	1,878,670
15	Adjusted Actual / Projected SC Retail Sales kWh (w/o solar)	Line 13 + Line 14	412,058,132	534,109,268	462,731,908	524,201,557	659,686,211	623,625,370
16	SC Base Fuel Costs	Line 12 * Line 15 / 100	\$ 9,437,342	\$ 11,191,936	\$ 10,948,198	\$ 12,876,998	\$ 14,876,432	\$ 13,840,805
17	Assign 100% of Avoided Fuel Benefit of SC NEM	Line 7, opposite sign	(33,455)	(27,921)	(35,183)	(34,483)	(61,989)	(75,147)
18	Adjusted SC Base Fuel Costs	Line 16 + Line 17	\$ 9,403,887	\$ 11,164,015	\$ 10,913,015	\$ 12,842,515	\$ 14,814,443	\$ 13,765,658
19	Fuel Costs Collected	Monthly Fuel Filings	\$ 9,084,719	\$ 11,785,525	\$ 10,201,659	\$ 11,560,996	\$ 15,005,367	\$ 14,677,864
20	Fuel Benefits Given in DER NEM incentive	Monthly Fuel Filings	(9,511)	(7,803)	(9,734)	(9,365)	(13,040)	(16,137)
21	Adjusted Fuel Costs Collected	Line 19 + Line 20	\$ 9,075,208	\$ 11,777,722	\$ 10,191,925	\$ 11,551,631	\$ 14,992,327	\$ 14,661,727
22	(Over) / Under Recovered Current Month	Line 18 - Line 21	\$ 328,679	\$ (613,707)	\$ 721,090	\$ 1,290,884	\$ (177,884)	\$ (896,069)
23	(Over) / Under Cumulative Balance - February 2018	2018-1-E	\$ 23,394,223					
24	Adjustment(s)	Monthly Fuel Filings				3,199		
25	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 22 + Line 23 + Line 24	\$ 23,722,902	\$ 23,109,195	\$ 23,830,285	\$ 25,124,368	\$ 24,946,484	\$ 24,050,415

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
26	Coal	Monthly Fuel Filings	\$ 24,647,231	\$ 14,927,507	\$ 20,375,712	\$ 35,857,484	\$ 38,643,375	\$ 9,782,506	\$ 305,787,783
27	Gas	Monthly Fuel Filings	53,283,254	53,740,493	54,521,926	62,784,227	61,270,115	47,778,009	623,783,106
28	Nuclear Fuel	Monthly Fuel Filings	13,468,704	13,744,614	14,082,897	16,323,865	16,837,287	15,434,029	183,414,294
29	Purchased Power	Monthly Fuel Filings	59,796,689	35,853,041	40,798,669	26,413,235	34,355,870	28,552,516	476,575,797
30	Fuel Expense Recovered Through Intersystem Sales	Monthly Fuel Filings	(14,060,575)	(22,249,737)	(18,902,399)	(24,995,583)	(9,878,607)	(68,338,601)	(228,051,399)
31	Total Fuel Costs	Sum Lines 26 through 30	\$ 137,135,303	\$ 96,015,918	\$ 110,876,805	\$ 116,383,228	\$ 141,228,040	\$ 33,208,459	\$ 1,361,509,581
32	Eliminate Avoided Fuel Benefit of SC NEM	Monthly Fuel Filings	64,483	45,792	63,753	67,763	74,728	66,656	651,353
33	Adjusted System Fuel Costs	Line 31 + Line 32	\$ 137,199,786	\$ 96,061,710	\$ 110,940,558	\$ 116,450,991	\$ 141,302,768	\$ 33,275,115	\$ 1,362,160,934
34	Total System kWh Sales (w/ solar)	Monthly Fuel Filings	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
35	Eliminate NEM Solar Generation kWh	Monthly Fuel Filings	2,011,329	1,428,329	1,988,547	2,113,646	2,330,897	2,079,115	19,471,894
36	Adjusted Projected System kWh Sales (w/o solar)	Line 34 + Line 35	5,429,405,069	5,151,950,885	4,725,860,929	4,830,241,492	5,618,320,555	5,089,705,542	62,688,617,384
37	System Cost per kWh (c/kWh)	Line 33 / Line 36 * 100	2.527	1.865	2.348	2.411	2.515	0.654	
38	Actual/ Projected SC Retail Sales kWh (w/ solar)	Monthly Fuel Filings	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
39	Eliminate the NEM impact kWh	Monthly Fuel Filings	2,011,329	1,428,329	1,988,547	2,113,646	2,330,897	2,079,115	19,471,894
40	Adjusted Actual / Projected SC Retail Sales kWh (w/o solar)	Line 38 + Line 39	513,370,988	579,877,728	507,042,584	447,452,625	607,610,008	557,587,120	6,429,353,499
41	SC Base Fuel Costs	Line 37 *Line 40 / 100	\$ 12,972,764	\$ 10,812,223	\$ 11,902,929	\$ 10,787,514	\$ 15,281,609	\$ 3,645,353	\$ 138,574,103
42	Assign 100% of Avoided Fuel Benefit of SC NEM	Line 32, opposite sign	(64,483)	(45,792)	(63,753)	(67,763)	(74,728)	(66,656)	(651,353)
43	Adjusted SC Base Fuel Costs	Line 41 + Line 42	\$ 12,908,281	\$ 10,766,431	\$ 11,839,176	\$ 10,719,751	\$ 15,206,881	\$ 3,578,697	\$ 137,922,750
44	Fuel Costs Collected	Monthly Fuel Filings	\$ 12,098,363	\$ 13,686,259	\$ 11,950,767	\$ 10,539,427	\$ 14,323,686	\$ 13,146,231	\$ 148,060,863
45	Fuel Benefits Given in DER NEM incentive	Monthly Fuel Filings	(17,696)	(10,922)	(16,926)	(17,922)	(20,051)	(16,051)	(165,158)
46	Adjusted Fuel Costs Collected	Line 44 + Line 45	\$ 12,080,667	\$ 13,675,337	\$ 11,933,841	\$ 10,521,505	\$ 14,303,635	\$ 13,130,180	\$ 147,895,705
47	(Over) / Under Recovered Current Month	Line 43 - Line 46	\$ 827,614	\$ (2,908,906)	\$ (94,665)	\$ 198,246	\$ 903,246	\$ (9,551,483)	\$ (9,972,955)
48	Adjustment(s)	Monthly Fuel Filings						(70)	3,129
49	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 47 + Line 48	\$ 24,878,029	\$ 21,969,123	\$ 21,874,458	\$ 22,072,704	\$ 22,975,950	\$ 13,424,397	\$ 13,424,397

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
50	Coal	WP1	\$ 25,709,434	\$ 24,672,036	\$ 26,251,436	\$ 42,483,825	\$ 424,904,513
51	Gas	WP2	43,845,607	26,045,395	24,693,867	38,675,670	757,043,645
52	Nuclear Fuel	WP3	12,427,031	15,483,969	16,417,236	15,637,985	243,380,515
53	Purchased Power	WP5	31,912,620	32,809,246	36,606,813	33,575,843	611,480,319
54	Fuel Expense Recovered Through Intersystem Sales	WP6	(9,241,738)	(15,103,333)	(10,393,751)	(15,816,500)	(278,606,720)
55	Total Fuel Costs	Sum Lines 50 through 54	\$ 104,652,954	\$ 83,907,314	\$ 93,575,601	\$ 114,556,823	\$ 1,758,202,272
56	Eliminate Avoided Fuel Benefit of SC NEM	WP14	80,204	82,258	85,679	92,600	992,094
57	Adjusted System Fuel Costs	Line 55 + Line 56	\$ 104,733,157	\$ 83,989,572	\$ 93,661,279	\$ 114,649,424	\$ 1,759,194,366
58	Total System kWh Sales (w/ solar)	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
59	Eliminate NEM Solar Generation kWh	WP14	2,501,687	2,565,762	2,672,455	2,888,346	30,100,144
60	Adjusted Projected System kWh Sales (w/o solar)	Line 58 + Line 59	4,555,483,303	4,485,077,793	4,449,068,537	5,207,307,438	81,385,554,456
61	System Cost per kWh (¢/kWh)	Line 57 / Line 60 * 100	2.299	1.873	2.105	2.202	2.162
62	Actual/ Projected SC Retail Sales kWh (w/ solar)	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
63	Eliminate the NEM impact kWh	WP14	2,501,687	2,565,762	2,672,455	2,888,346	30,100,144
64	Adjusted Actual / Projected SC Retail Sales kWh (w/o solar)	Line 62 + Line 63	418,589,851	513,251,922	493,719,170	543,925,016	8,398,839,458
65	SC Base Fuel Costs	Line 61 * Line 64 / 100	\$ 9,623,619	\$ 9,611,385	\$ 10,393,719	\$ 11,975,611	\$ 180,178,437
66	Assign 100% of Avoided Fuel Benefit of SC NEM	WP14	(80,204)	(82,258)	(85,679)	(92,600)	(992,094)
67	Adjusted SC Base Fuel Costs	Line 65 + Line 66	\$ 9,543,415	\$ 9,529,127	\$ 10,308,040	\$ 11,883,011	\$ 179,186,343
68	Fuel Costs Collected	2018-1-E	\$ 9,846,440	\$ 12,082,835	\$ 11,618,165	\$ 12,800,928	\$ 194,409,230
69	Fuel Benefits Given in DER NEM incentive	WP14	(20,835)	(13,987)	(14,562)	(15,766)	(230,308)
70	Adjusted Fuel Costs Collected	Line 68 + Line 69	\$ 9,825,605	\$ 12,068,847	\$ 11,603,604	\$ 12,785,162	\$ 194,178,922
71	(Over) / Under Recovered Current Month	Line 67 - Line 70	\$ (282,190)	\$ (2,539,721)	\$ (1,295,563)	\$ (902,151)	\$ (14,992,580)
72	Adjustment(s)					\$	\$ 3,129
73	(Over) / Under Recovered Cumulative Balance	Prior Mo Cum Bal + Line 71 + Line 72	\$ 13,142,207	\$ 10,602,487	\$ 9,306,923	\$ 8,404,772	\$ 8,404,772
74	SC Projected SC Retail Sales July 2019 - June 2020	WP8					6,730,340,143
75	SC Base Fuel Increment / (Decrement) Calculated Rate (¢/kWh)	Line 73 / Line 74 * 100					0.125

**DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED BILLING PERIOD BASE FUEL COSTS
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020**

Harrington Exhibit 3
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Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
1	Coal	WP1	\$ 50,329,027	\$ 48,560,028	\$ 36,492,075	\$ 27,804,934	\$ 28,355,841	\$ 39,453,290
2	Gas	WP2	42,733,855	41,542,126	36,796,989	35,225,339	46,537,541	39,053,113
3	Nuclear Fuel	WP3	16,080,123	16,125,971	15,671,479	13,266,910	12,962,295	16,954,471
4	Purchased Power	WP5	34,346,947	35,527,201	30,048,140	27,871,007	23,855,906	23,039,833
5	Fuel Expense Recovered Through Intersystem Sales	WP6	(14,446,039)	(14,992,498)	(16,593,655)	(12,921,455)	(18,074,157)	(19,830,615)
6	Total Fuel Costs	Sum Lines 1 through 5	\$ 129,043,913	\$ 126,762,828	\$ 102,415,028	\$ 91,246,735	\$ 93,637,426	\$ 98,670,092
7	Eliminate Avoided Fuel Benefit of SC NEM	WP14	97,363	90,132	83,351	80,567	65,833	52,368
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 129,141,276	\$ 126,852,960	\$ 102,498,379	\$ 91,327,302	\$ 93,703,259	\$ 98,722,460
9	Total Projected System Sales kWh (w/ solar)	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	Eliminate NEM Solar Generation kWh	WP14	3,032,181	2,806,978	2,595,784	2,509,088	2,050,225	1,630,890
11	Adjusted Projected System kWh Sales (w/o solar)	Line 9 + Line 10	5,956,641,567	6,013,792,713	5,484,880,374	4,674,202,584	4,597,892,944	5,174,269,620
12	System Cost per kWh (¢/kWh)	Line 8 / Line 11 * 100	2.168	2.109	1.869	1.954	2.038	1.908
13	Adjusted Projected SC Retail Sales (w/o solar)	WP8	618,402,562	633,262,773	605,425,276	527,201,736	503,019,569	554,332,642
14	SC Base Fuel Costs	Line 12 * Line 13 / 100	\$ 13,407,101	\$ 13,357,836	\$ 11,313,849	\$ 10,300,776	\$ 10,251,342	\$ 10,576,388
15	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)	WP14	(88,557)	(82,000)	(75,830)	(73,273)	(59,867)	(47,548)
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 13,318,544	\$ 13,275,836	\$ 11,238,019	\$ 10,227,503	\$ 10,191,475	\$ 10,528,840

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
17	Coal	WP1	\$ 46,123,651	\$ 44,995,067	\$ 28,884,279	\$ 10,321,926	\$ 13,454,535	\$ 28,706,332	\$ 403,480,987
18	Gas	WP2	25,930,059	23,512,584	41,860,567	30,566,002	33,857,114	42,033,249	439,648,540
19	Nuclear Fuel	WP3	16,926,060	15,497,215	12,919,969	15,694,928	16,059,189	15,404,872	183,563,482
20	Purchased Power	WP5	31,036,153	28,507,690	30,811,390	31,787,324	34,752,429	34,226,552	365,810,573
21	Fuel Expense Recovered Through Intersystem Sales	WP6	(9,450,657)	(8,830,573)	(17,436,188)	(14,601,554)	(16,841,809)	(14,896,830)	(178,916,030)
22	Total Fuel Costs	Sum Lines 17 through 21	\$ 110,565,266	\$ 103,681,983	\$ 97,040,017	\$ 73,768,626	\$ 81,281,458	\$ 105,474,175	\$ 1,213,587,551
23	Eliminate Avoided Fuel Benefit of SC NEM	WP14	67,006	69,976	93,589	111,822	114,137	118,095	1,044,238
24	Adjusted System Fuel Costs	Line 22 + Line 23	\$ 110,632,272	\$ 103,751,959	\$ 97,133,606	\$ 73,880,448	\$ 81,395,595	\$ 105,592,270	\$ 1,214,631,789
25	Total Projected System Sales kWh (w/ solar)	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267
26	Eliminate NEM Solar Generation kWh	WP14	2,086,766	2,179,249	2,914,645	3,482,451	3,554,566	3,677,823	32,520,646
27	Adjusted Projected System kWh Sales (w/o solar)	Line 25 + Line 26	5,681,622,586	5,468,251,389	5,025,890,823	4,427,401,900	4,400,256,004	5,139,913,407	62,045,015,912
28	System Cost per kWh (¢/kWh)	Line 24 / Line 27 * 100	1.947	1.897	1.933	1.669	1.850	2.054	1.958
29	Adjusted Projected SC Retail Sales (w/o solar)	WP8	607,182,038	596,770,188	558,856,798	515,871,629	497,547,902	544,987,675	6,762,860,788
30	SC Base Fuel Costs	Line 28 * Line 29 / 100	\$ 11,823,018	\$ 11,322,829	\$ 10,800,827	\$ 8,608,396	\$ 9,203,603	\$ 11,196,003	\$ 132,161,967
31	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)	WP14	(60,849)	(63,563)	(85,049)	(101,639)	(103,756)	(107,367)	(949,299)
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 11,762,169	\$ 11,259,266	\$ 10,715,778	\$ 8,506,757	\$ 9,099,847	\$ 11,088,636	\$ 131,212,669
33	Projected SC Retail Sales								6,730,340,143
34	Adjusted SC System Cost per kWh (¢/kWh)	Line 32 / Line 33 * 100							1.950

Note 1: Equals total NEM avoided fuel benefit less portion included in DERP NEM Incentive.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
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Line No.		Residential						
1	Winter 2018 Firm Coincident Peak (CP) kW	60.91%						
2	Winter 2017 Firm Coincident Peak (CP) kW	59.11%						
			Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019	
Line No.	Description	Reference						
34	Total Reagents	WP7	\$ 1,310,655	\$ 1,004,394	\$ 1,014,503	\$ 1,963,082	\$ 22,044,654	
35	Emission Allowances	WP7	-	1,173	1,431	2,889	(72,186)	
36	Amounts Recovered in Off-System Sales	WP7	(71,965)	(11,599)	(11,960)	(4,297)	(648,172)	
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 1,238,690	\$ 993,968	\$ 1,003,974	\$ 1,961,674	\$ 21,324,297	
38	Projected Total System Sales kWh	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312	
39	Environmental System Costs Incurred ¢/kwh	Line 37 / Line 38 * 100	0.027	0.022	0.023	0.038		
40	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314	
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 113,201	\$ 113,241	\$ 110,876	\$ 203,930	\$ 2,172,442	
42	SC Residential Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 68,948	\$ 68,972	\$ 67,532	\$ 124,209	\$ 1,298,678	
43	Projected SC Residential kWh Sales	WP8a	150,838,802	161,472,415	138,607,950	171,939,263	2,724,100,457	
44	SC Residential Environmental Costs Incurred ¢/kwh	Line 42 / Line 43 * 100	0.046	0.043	0.049	0.072		
45	SC Residential Environmental Costs Billed ¢/kwh	2018-1-E	0.019	0.019	0.019	0.019		
46	SC Residential Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ 40,490	\$ 38,508	\$ 41,381	\$ 91,770	\$ 670,716	
47	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 46	\$ 163,244	\$ 201,752	\$ 243,134	\$ 334,903	334,903	
48	Adjustment(s)						-	
49	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ 334,903	
50	SC Projected Residential kWh Sales July 2019 - June 2020	WP8a						2,301,521,005
51	SC Residential Environmental Increment / (Decrement) Calculated Rate (¢/kwh)	(Line 49 / Line 50 * 100)						0.015

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.		General Service (non-demand)							
1	Winter 2018 Firm Coincident Peak (CP) kW	6.37%							
2	Winter 2017 Firm Coincident Peak (CP) kW	5.46%							
Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018	
3	Total Reagents	Monthly Fuel Filing	\$ 787,583	\$ 873,319	\$ 1,083,871	\$ 1,993,580	\$ 1,766,587	\$ 2,089,366	
4	Emission Allowances	Monthly Fuel Filing	833	3,744	(94,203)	1,451	2,619	2,002	
5	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,052)	(13,684)	(14,979)	(10,832)	(24,914)	(24,607)	
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 778,364	\$ 863,379	\$ 974,689	\$ 1,984,199	\$ 1,744,293	\$ 2,066,761	
7	Total System Sales kWh	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	
8	Environmental System Costs Incurred c/kwh	Line 6 / Line 7 * 100	0.017	0.019	0.021	0.035	0.028	0.033	
9	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 68,741	\$ 102,444	\$ 96,874	\$ 182,815	\$ 186,221	\$ 207,242	
11	SC General Service (non-demand) Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 3,754	\$ 5,594	\$ 5,290	\$ 9,983	\$ 10,169	\$ 11,317	
12	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	18,983,274	19,396,612	19,878,431	27,515,526	30,997,729	31,253,114	
13	SC General Service (non-demand) Environmental Costs Incurred c/kwh	Line 11 / Line 12 * 100	0.020	0.029	0.027	0.036	0.033	0.036	
14	SC General Service (non-demand) Environmental Costs Billed c/kwh	2017-1-E, 2018-1-E	0.024	0.024	0.024	0.024	0.017	0.009	
15	SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	(Line 13 - Line 14) * Line 12 / 100	\$ (802)	\$ 939	\$ 519	\$ 3,379	\$ 4,953	\$ 8,644	
16	Prior Year Balance	2018-1-E	\$ (47,916)						
17	Adjusted Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 15	\$ (48,718)	\$ (47,779)	\$ (47,260)	\$ (43,881)	\$ (38,928)	\$ (30,284)	

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
18	Total Reagents	Monthly Fuel Filing	\$ 1,446,270	\$ 894,255	\$ 1,161,039	\$ 2,048,497	\$ 2,028,239	\$ 579,414	\$ 16,752,021
19	Emission Allowances	Monthly Fuel Filing	2,157	1,511	943	1,264	-	-	(77,679)
20	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,487)	(20,664)	(69,630)	(195,638)	(78,656)	(74,208)	(548,351)
21	Net Environmental Costs	Sum Lines 18 thru 20	\$ 1,437,940	\$ 875,102	\$ 1,092,352	\$ 1,854,123	\$ 1,949,583	\$ 505,206	\$ 16,125,991
22	Total System Sales	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
23	Environmental System Costs Incurred c/kwh	Line 21 / Line 22 * 100	0.026	0.017	0.023	0.038	0.035	0.010	
24	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
25	SC Environmental Costs	Line 23 * Line 24 / 100	\$ 135,480	\$ 98,282	\$ 116,789	\$ 171,021	\$ 210,122	\$ 55,162	\$ 1,631,193
26	SC General Service (non-demand) Environmental Cost Allocated by Firm CP	Line 25 * Line 2 (or Line 1)	\$ 7,398	\$ 5,367	\$ 6,378	\$ 9,339	\$ 13,375	\$ 3,511	\$ 91,477
27	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	29,398,859	25,905,784	43,187,370	1,109,696	24,675,505	25,191,572	297,493,472
28	SC General Service (non-demand) Environmental Costs Incurred c/kwh	Line 26 / Line 27 * 100	0.025	0.021	0.015	0.842	0.054	0.014	0.031
29	SC General Service (non-demand) Environmental Costs Billed c/kwh	2018-1-E	0.008	0.008	0.008	0.008	0.008	0.008	
30	SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	(Line 28 - Line 29) * Line 27 / 100	\$ 5,046	\$ 3,296	\$ 2,923	\$ 9,250	\$ 11,403	\$ 1,497	\$ 51,047
31	Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 30	\$ (25,238)	\$ (21,942)	\$ (19,019)	\$ (9,769)	\$ 1,634	\$ 3,131	\$ 3,131
32	Adjustment(s)								-
33	Adjusted Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Line 31 + Line 32							\$ 3,131

DUKE ENERGY PROGRESS, LLC
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Line No.		General Service (non-demand)						
1	Winter 2018 Firm Coincident Peak (CP) kW	6.37%						
2	Winter 2017 Firm Coincident Peak (CP) kW	5.46%						

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Total Reagents	WP7	\$ 1,310,655	\$ 1,004,394	\$ 1,014,503	\$ 1,963,082	\$ 22,044,654
35	Emission Allowances	WP7	-	1,173	1,431	2,889	(72,186)
36	Amounts Recovered in Off-System Sales	WP7	(71,965)	(11,599)	(11,960)	(4,297)	(648,172)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 1,238,690	\$ 993,968	\$ 1,003,974	\$ 1,961,674	\$ 21,324,297
38	Projected Total System Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
39	Environmental System Costs Incurred ¢/kwh	Line 37 / Line 38 * 100	0.027	0.022	0.023	0.038	
40	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 113,201	\$ 113,241	\$ 110,876	\$ 203,930	\$ 2,172,442
42	SC General Service (non-demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 7,206	\$ 7,208	\$ 7,058	\$ 12,981	\$ 125,930
43	Projected SC General Service (non-demand) kWh Sales	WP8a	18,802,778	23,902,363	24,173,210	25,241,053	389,612,876
44	SC General Service (non-demand) Environmental Costs Incurred ¢/kwh	Line 42 / Line 43 * 100	0.038	0.030	0.029	0.051	
45	SC General Service (non-demand) Environmental Costs Billed ¢/kwh	2018-1-E	0.008	0.008	0.008	0.008	
46	SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ 5,702	\$ 5,296	\$ 5,124	\$ 10,962	\$ 78,131
47	Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 46	\$ 8,833	\$ 14,129	\$ 19,253	\$ 30,215	30,215
48	Adjustment(s)						-
49	Adjusted Cumulative SC General Service (non-demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ 30,215
50	SC Projected General Service (non-demand) kWh Sales July 2019 - June 2020	WP8a					299,773,076
51	SC General Service (non-demand) Environmental Increment / (Decrement) Calculated Rate (¢/kwh)	(Line 49 / Line 50 * 100)					0.010

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.	General Service (demand)								
1	Winter 2018 Firm Coincident Peak (CP) kW	32.73%							
2	Winter 2017 Firm Coincident Peak (CP) kW	35.43%							
Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018	
3	Total Reagents	Monthly Fuel Filing	\$ 787,583	\$ 873,319	\$ 1,083,871	\$ 1,993,580	\$ 1,766,587	\$ 2,089,366	
4	Emission Allowances	Monthly Fuel Filing	833	3,744	(94,203)	1,451	2,619	2,002	
5	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,052)	(13,684)	(14,979)	(10,832)	(24,914)	(24,607)	
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 778,364	\$ 863,379	\$ 974,689	\$ 1,984,199	\$ 1,744,293	\$ 2,066,761	
7	Total System Sales kWh	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	
8	Environmental System Costs Incurred c/kwh	Line 6 / Line 7 * 100	0.017	0.019	0.021	0.035	0.028	0.033	
9	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 68,741	\$ 102,444	\$ 96,874	\$ 182,815	\$ 186,221	\$ 207,242	
11	SC General Service (demand) Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 24,352	\$ 36,291	\$ 34,318	\$ 64,763	\$ 65,969	\$ 73,416	
12	SC General Service (demand) kW Sales	Monthly Fuel Filing	657,929	666,086	652,200	669,014	703,175	805,885	
13	SC General Service (demand) Environmental Costs Incurred c / kW	Line 11 / Line 12 * 100	4	5	5	10	9	9	
14	SC General Service (demand) Environmental Costs Billed c / kW	2017-1-E, 2018-1-E	7	7	7	7	4	1	
15	SC General Service (demand) Environmental Costs (Over) / Under Recovery	(Line 13 - Line 14) * Line 12 / 100	\$ (21,703)	\$ (10,335)	\$ (11,336)	\$ 17,932	\$ 35,654	\$ 63,688	
16	Prior Year Balance	2018-1-E	\$ (232,775)						
17	Adjusted Cumulative SC Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 15	\$ (254,478)	\$ (264,813)	\$ (276,149)	\$ (258,217)	\$ (222,563)	\$ (158,875)	
Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
18	Total Reagents	Monthly Fuel Filing	\$ 1,446,270	\$ 894,255	\$ 1,161,039	\$ 2,048,497	\$ 2,028,239	\$ 579,414	\$ 16,752,021
19	Emission Allowances	Monthly Fuel Filing	2,157	1,511	943	1,264	-	-	(77,679)
20	Amounts Recovered in Off-System Sales	Monthly Fuel Filing	(10,487)	(20,664)	(69,630)	(195,638)	(78,656)	(74,208)	(548,351)
21	Net Environmental Costs	Sum Lines 18 thru 20	\$ 1,437,940	\$ 875,102	\$ 1,092,352	\$ 1,854,123	\$ 1,949,583	\$ 505,206	\$ 16,125,991
22	Total System Sales kWh	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
23	Environmental System Costs Incurred c/kwh	Line 21 / Line 22 * 100	0.026	0.017	0.023	0.038	0.035	0.010	
24	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
25	SC Environmental Costs	Line 23 * Line 24 / 100	\$ 135,480	\$ 98,282	\$ 116,789	\$ 171,021	\$ 210,122	\$ 55,162	\$ 1,631,193
26	SC General Service (demand) Environmental Cost Allocated by Firm CP	Line 25 * Line 2 (or Line 1)	\$ 47,994	\$ 34,817	\$ 41,373	\$ 60,585	\$ 68,767	\$ 18,053.07	\$ 570,699
27	SC General Service (demand) kW Sales	Monthly Fuel Filing	885,000	704,900	647,300	621,700	409,400	671,000	8,093,589
28	SC General Service (demand) Environmental Costs Incurred c / kW	Line 26 / Line 27 * 100	5	5	6	10	17	3	7
29	SC General Service (demand) Environmental Costs Billed c / kW	2018-1-E	1	1	1	1	1	1	1
30	SC General Service (demand) Environmental Costs (Over) / Under Recovery	(Line 28 - Line 29) * Line 27 / 100	\$ 39,145	\$ 27,768	\$ 34,900	\$ 54,368	\$ 64,673	\$ 11,343	\$ 306,097
31	Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 30	\$ (119,730)	\$ (91,962)	\$ (57,062)	\$ (2,694)	\$ 61,979	\$ 73,322	\$ 73,322
32	Adjustment(s)								-
33	Adjusted Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Line 31 + Line 32							\$ 73,322

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE (DEMAND)
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Line No.		General Service (demand)						
1	Winter 2018 Firm Coincident Peak (CP) kW	32.73%						
2	Winter 2017 Firm Coincident Peak (CP) kW	35.43%						

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Total Reagents	WP7	\$ 1,310,655	\$ 1,004,394	\$ 1,014,503	\$ 1,963,082	\$ 22,044,654
35	Emission Allowances	WP7	-	1,173	1,431	2,889	(72,186)
36	Amounts Recovered in Off-System Sales	WP7	(71,965)	(11,599)	(11,960)	(4,297)	(648,172)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 1,238,690	\$ 993,968	\$ 1,003,974	\$ 1,961,674	\$ 21,324,297
38	Projected Total System Sales kWh	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.027	0.022	0.023	0.038	
40	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 113,201	\$ 113,241	\$ 110,876	\$ 203,930	\$ 2,172,442
42	SC General Service (demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 37,048	\$ 37,061	\$ 36,286	\$ 66,740	\$ 747,834
43	Projected SC General Service (demand) kW Sales	WP8a	645,500	696,605	771,394	824,008	11,031,096
44	SC General Service (demand) Environmental Costs Incurred c / kW	Line 42 / Line 43 * 100	6	5	5	8	
45	SC General Service (demand) Environmental Costs Billed c / kW	2018-1-E	1	1	1	1	
46	SC General Service (demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ 30,592	\$ 30,095	\$ 28,573	\$ 58,500	\$ 453,856
47	Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Prior Month Cum. Bal + Line 46	\$ 103,914	\$ 134,009	\$ 162,581	\$ 221,081	221,081
48	Adjustment(s)						-
49	Adjusted Cumulative SC General Service (demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48				\$	221,081
50	SC Projected General Service (demand) kW Sales July 2019 - June 2020	WP8a					9,063,849
51	SC General Service (demand) Environmental Increment / (Decrement) Calculated Rate (c/kw)	(Line 49 / Line 50*100)					2

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020

Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Total SC	1,277,055	100.00%

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
5	Total Reagents	WP7	\$ 2,513,711	\$ 2,483,623	\$ 1,823,252	\$ 1,229,970	\$ 1,398,731	\$ 2,122,014
6	Emission Allowances	WP7	3,700	3,751	2,849	1,874	2,206	3,415
7	Estimated Amounts Recovered in Off-system Sales	WP7	(4,637)	(2,612)	(4,322)	(1,704)	(7,443)	(22,150)
8	Net Environmental Costs	Sum Lines 5 through 7	\$ 2,512,774	\$ 2,484,762	\$ 1,821,779	\$ 1,230,140	\$ 1,393,494	\$ 2,103,279
9	Total Projected System Sales kWh (w/ solar)	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	Environmental System Costs Incurred ¢/kWh	Line 8 / Line 9 * 100	0.042	0.041	0.033	0.026	0.030	0.041
11	Projected SC Retail Sales	WP8	615,370,381	630,455,795	602,829,492	524,692,648	500,969,344	552,701,752
12	SC Environmental Costs	Line 10 * Line 11 / 100	259,723	260,612	200,322	138,161	151,898	224,738

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
13	Total Reagents	WP7	\$ 2,629,502	\$ 2,587,287	\$ 1,603,961	\$ 427,009	\$ 588,162	\$ 1,448,839	\$ 20,856,061
14	Emission Allowances	WP7	3,607	3,570	2,229	575	849	2,073	30,698
15	Estimated Amounts Recovered in Off-system Sales	WP7	(125,273)	(84,354)	(23,636)	(15,317)	(19,248)	(9,697)	(320,393)
16	Net Environmental Costs	Sum Lines 13 thru 15	\$ 2,507,836	\$ 2,506,503	\$ 1,582,554	\$ 412,267	\$ 569,763	\$ 1,441,215	\$ 20,566,366
17	Total Projected System Sales kWh (w/ solar)	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267
18	Environmental System Costs Incurred ¢/kWh	Line 16 / Line 17 *100	0.044	0.046	0.032	0.009	0.013	0.028	
19	Projected SC Retail Sales	WP8	605,095,272	594,590,939	555,942,153	512,389,178	493,993,336	541,309,853	6,730,340,143
20	SC Environmental Costs	Line 18 * Line 19 / 100	267,184	272,654	175,157	47,750	64,016	151,890	2,214,102
SC Environmental Costs Allocated on Firm CP kW's									
21	Residential	Total Line 20 * Line 1							\$ 1,348,554
22	General Service (Non-demand)	Total Line 20 * Line 2							140,937
23	General Service (Demand)	Total Line 20 * Line 3							724,611
24	Total SC	Sum Lines 21 through 23							\$ 2,214,102
Projected SC Retail Sales kWh (July 2019-June 2020)									
25	Residential	WP8a							2,301,521,005
26	General Service (non-demand)	WP8a							299,773,076
27	General Service (demand)	WP8a							4,032,970,877
28	Lighting	WP8a							96,075,184
29	Total SC	Sum Lines 25 through 28							6,730,340,143
Projected Average Environmental Fuel Cost ¢/kWh									
30	Residential	Line 21 / Line 25 * 100							0.059
31	General Service (non-demand)	Line 22 / Line 26 * 100							0.047
Projected Average Environmental Fuel Cost ¢/kW									
32	Projected SC KW sales General Service (demand)	WP8a							9,063,849
33	General Service (demand) (¢/kW)	Line 23 / Line 32 * 100							8

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**DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
REVENUE ADJUSTMENT FACTOR FOR RECD
FOR THE 12 MONTHS ENDED FEBRUARY 28, 2019**

Residential Adjustment Factor

1	Billed kWh (12ME 2/28/19)	Per Books	2,118,023,917	
2	Billed RECD kWh (12ME 2/28/19)		<u>307,864,983</u>	(a)
3	RECD kWh Percent of Total Billed	Line 2 / Line 1	14.5355%	
4	RECD Discount	RECD Discount	<u>5.0000%</u>	(b)
5	RECD Impact (Weighted Discount)	Line 3 X Line 4	0.7268%	

Notes:

(a) Energy billed and discounted pursuant to Residential Energy Conservation Discount, Rider RECD-2C.

(b) Five-percent discount provided under Residential Energy Conservation Discount, Rider RECD-2C.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

Line No.		Residential
1	Winter 2018 Firm Coincident Peak (CP) kW	60.91%
2	Winter 2017 Firm Coincident Peak (CP) kW	59.11%

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
3	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 3,501,027	\$ 5,769,066	\$ 5,660,960	\$ 9,096,212	\$ 9,511,571	\$ 9,360,396
4	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	11,019,595	10,681,190	10,961,570	10,765,277	10,589,252	10,930,096
5	Total Capacity Related Costs	Lines 3 + Line 4	\$ 14,520,622	\$ 16,450,256	\$ 16,622,530	\$ 19,861,489	\$ 20,100,823	\$ 20,290,492
6	Total System kWh Sales	Monthly Fuel Filings	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
7	Capacity Related System Costs Incurred (c/kWh)	Line 5 / Line 6 * 100	0.312	0.366	0.358	0.350	0.326	0.327
8	SC Retail Sales kWh	Monthly Fuel Filings	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	\$ 1,282,385	\$ 1,951,892	\$ 1,652,101	\$ 1,829,943	\$ 2,145,964	\$ 2,034,609
10	SC Residential Capacity Related Costs Allocated by Firm CP	Line 9 * Line 2	\$ 758,065	\$ 1,153,836	\$ 976,618	\$ 1,081,747	\$ 1,268,559	\$ 1,202,733
11	SC Residential kWh Sales	Monthly Fuel Filing	143,961,446	142,967,229	126,649,812	183,269,324	209,653,372	205,859,617
12	SC Residential Capacity Related Cost Incurred (c/kWh)	Line 10 / Line 11 * 100	0.527	0.807	0.771	0.590	0.605	0.584
13	SC Residential Non-Fuel Base Rates Billed (c/kWh)	2017-1-E, 2018-1-E	0.472	0.472	0.471	0.471	0.563	0.669
14	SC Capacity Related (Over) / Under Recovery	(Line 12 - Line 13)*Line 11 /100	\$ 79,187	\$ 479,717	\$ 379,717	\$ 217,876	\$ 88,083	\$ (174,287)
15	Prior Year Balance	2018-1-E	\$ 1,072,233					
16	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 14	\$ 1,151,420	\$ 1,631,137	\$ 2,010,854	\$ 2,228,730	\$ 2,316,813	\$ 2,142,526

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
17	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 9,533,487	\$ 2,509,771	\$ 3,787,242	\$ 2,047,397	\$ 4,233,736	\$ 5,175,127	\$ 70,185,992
18	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	10,231,278	9,779,505	11,410,673	11,126,924	10,513,351	10,049,308	128,058,019
19	Total Capacity Related Costs	Line 17 + Line 18	\$ 19,764,765	\$ 12,289,276	\$ 15,197,915	\$ 13,174,321	\$ 14,747,087	\$ 15,224,435	\$ 198,244,011
20	Total System kWh Sales	Monthly Fuel Filings	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
21	Capacity Related System Costs Incurred (c/kWh)	Line 19 / Line 20 * 100	0.364	0.239	0.322	0.273	0.263	0.299	
22	SC Retail Sales kWh	Monthly Fuel Filings	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$ 1,862,202	\$ 1,380,195	\$ 1,624,889	\$ 1,215,179	\$ 1,589,409	\$ 1,662,326	\$ 20,231,095
24	SC Residential Capacity Related Costs Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	\$ 1,100,816	\$ 815,884	\$ 960,532	\$ 718,337	\$ 968,069	\$ 1,012,481	\$ 12,017,677
25	SC Residential kWh Sales	Monthly Fuel Filing	192,472,913	166,363,331	135,084,422	188,450,930	199,934,867	206,574,763	2,101,242,026
26	SC Residential Capacity Related Cost Incurred (c/kWh)	Line 24 / Line 25 * 100	0.572	0.490	0.711	0.381	0.484	0.490	
27	SC Residential Non-Fuel Base Rates Billed (c/kWh)	2018-1-E	0.676	0.673	0.676	0.676	0.676	0.676	
28	SC Capacity Related (Over) / Under Recovery	(Line 26 - Line 27)*Line 25 /100	\$ (199,912)	\$ (303,466)	\$ 47,213	\$ (556,097)	\$ (384,000)	\$ (384,503)	\$ (710,472)
29	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 28	\$ 1,942,614	\$ 1,639,148	\$ 1,686,361	\$ 1,130,264	\$ 746,264	\$ 361,761	361,761
30	Adjustment(s)								-
31	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 29 + Line 30							\$ 361,761

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
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Line No.		Residential					
1	Winter 2018 Firm Coincident Peak (CP) kW	60.91%					
2	Winter 2017 Firm Coincident Peak (CP) kW	59.11%					

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
32	PURPA Purchased Power Capacity Costs	WP 11	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331	\$ 95,808,749
33	Firm Natural Gas Transportation and Storage Costs	WP 11	11,128,452	13,289,963	11,592,740	12,570,091	176,639,265
34	Total Capacity Related Costs	Line 32 + Line 33	\$ 15,468,664	\$ 20,185,762	\$ 18,953,155	\$ 19,596,421	\$ 272,448,014
35	Projected Total System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
36	Capacity Related System Costs Incurred (¢/kWh)	Line 34 / Line 35 * 100	0.340	0.450	0.426	0.377	
37	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,413,651	\$ 2,299,735	\$ 2,093,130	\$ 2,037,188	\$ 28,074,799
39	SC Residential Capacity Related Costs Allocated by Firm CP	Line 38 * Line 1	\$ 861,019	\$ 1,400,711	\$ 1,274,873	\$ 1,240,800	\$ 16,795,080
40	Projected SC Residential kWh Sales	WP8a	150,838,802	161,472,415	138,607,950	171,939,263	2,724,100,457
41	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 39 / Line 40 * 100	0.571	0.867	0.920	0.722	
42	SC Residential Non-Fuel Base Rates Billed (¢/kWh)	2018-1-E	0.676	0.676	0.676	0.676	
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ (158,950)	\$ 309,157	\$ 337,883	\$ 78,491	\$ (143,891)
44	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 43	\$ 202,811	\$ 511,968	\$ 849,851	\$ 928,342	928,342
45	Adjustment(s)						-
46	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ 928,342
47	SC Projected Residential kWh Sales July 2019 - June 2020	WP8a					2,301,521,005
48	SC Projected Residential Capacity Related Increment / (Decrement)						
	Calculated Rate (¢/kWh)	(Line 46 / Line 47 * 100)					0.040

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.		General Service (non-demand)								
1	Winter 2018 Firm Coincident Peak (CP) kW's	6.37%								
2	Winter 2017 Firm Coincident Peak (CP) kW's	5.46%								
Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018		
3	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 3,501,027	\$ 5,769,066	\$ 5,660,960	\$ 9,096,212	\$ 9,511,571	\$ 9,360,396		
4	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	11,019,595	10,681,190	10,961,570	10,765,277	10,589,252	10,930,096		
5	Total Capacity Related Costs	Lines 3 + Line 4	\$ 14,520,622	\$ 16,450,256	\$ 16,622,530	\$ 19,861,489	\$ 20,100,823	\$ 20,290,492		
6	Total System kWh Sales	Monthly Fuel Filings	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072		
7	Capacity Related System Costs Incurred (c/kWh)	Line 5 / Line 6 * 100	0.312	0.366	0.358	0.350	0.326	0.327		
8	SC Retail Sales kWh	Monthly Fuel Filings	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700		
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	\$ 1,282,385	\$ 1,951,892	\$ 1,652,101	\$ 1,829,943	\$ 2,145,964	\$ 2,034,609		
10	SC General Service (non-demand) Capacity Related Cost Allocated by Firm CP	Line 9 * Line 2	\$ 70,030	\$ 106,591	\$ 90,219	\$ 99,931	\$ 117,189	\$ 111,108		
11	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	18,983,274	19,396,612	19,878,431	27,515,526	30,997,729	31,253,114		
12	SC General Service (non-demand) Capacity Related Cost Incurred (c/kWh)	Line 10 / Line 11 * 100	0.369	0.550	0.454	0.363	0.378	0.356		
13	SC General Service (non-demand) Non-Fuel Base Rates Billed (c/kWh)	2017-1-E, 2018-1-E	0.371	0.371	0.371	0.371	0.396	0.424		
14	SC Capacity Related (Over) / Under Recovery	(Line 12 - Line 13)*Line 11 / 100	\$ (398)	\$ 34,630	\$ 16,470	\$ (2,152)	\$ (5,454)	\$ (21,437)		
15	Prior Year Balance	2018-1-E	\$ (34,323)							
16	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 14	\$ (34,721)	\$ (91)	\$ 16,379	\$ 14,227	\$ 8,773	\$ (12,664)		

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
17	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 9,533,487	\$ 2,509,771	\$ 3,787,242	\$ 2,047,397	\$ 4,233,736	\$ 5,175,127	\$ 70,185,992
18	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	10,231,278	9,779,505	11,410,673	11,126,924	10,513,351	10,049,308	128,058,019
19	Total Capacity Related Costs	Line 17 + Line 18	\$ 19,764,765	\$ 12,289,276	\$ 15,197,915	\$ 13,174,321	\$ 14,747,087	\$ 15,224,435	\$ 198,244,011
20	Total System kWh Sales	Monthly Fuel Filings	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
21	Capacity Related System Costs Incurred (c/kWh)	Line 19 / Line 20 * 100	0.364	0.239	0.322	0.273	0.263	0.299	
22	SC Retail Sales kWh	Monthly Fuel Filings	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$ 1,862,202	\$ 1,380,195	\$ 1,624,889	\$ 1,215,179	\$ 1,589,409	\$ 1,662,326	\$ 20,231,095
24	SC General Service (non-demand) Capacity Related Cost Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	\$ 101,693	\$ 75,371	\$ 88,733	\$ 66,360	\$ 101,173	\$ 105,814	\$ 1,134,212
25	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	29,398,859	25,905,784	43,187,370	1,109,696	24,675,505	25,191,572	297,493,472
26	SC General Service (non-demand) Capacity Related Cost Incurred (c/kWh)	Line 24 / Line 25 * 100	0.346	0.291	0.205	5.980	0.410	0.420	0.381
27	SC General Service (non-demand) Non-Fuel Base Rates Billed (c/kWh)	2018-1-E	0.426	0.426	0.426	0.426	0.426	0.426	
28	SC Capacity Related (Over) / Under Recovery	(Line 26 - Line 27)*Line 25 / 100	\$ (23,546)	\$ (34,886)	\$ (95,245)	\$ 61,633	\$ (3,835)	\$ (1,502)	\$ (75,722)
29	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 28	\$ (36,210)	\$ (71,096)	\$ (166,341)	\$ (104,708)	\$ (108,543)	\$ (110,045)	(110,045)
30	Adjustment(s)								-
31	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Line 29 + Line 30							\$ (110,045)

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
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Line No.	General Service (non-demand)						
1	Winter 2018 Firm Coincident Peak (CP) kW	6.37%					
2	Winter 2017 Firm Coincident Peak (CP) kW	5.46%					

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
32	PURPA Purchased Power Capacity Costs	WP 11	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331	\$ 95,808,749
33	Firm Natural Gas Transportation and Storage Costs	WP 11	11,128,452	13,289,963	11,592,740	12,570,091	176,639,265
34	Total Capacity Related Costs	Line 32 + Line 33	\$ 15,468,664	\$ 20,185,762	\$ 18,953,155	\$ 19,596,421	\$ 272,448,014
35	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
36	Capacity Related System Costs Incurred (¢/kWh)	Line 34 / Line 35 * 100	0.340	0.450	0.426	0.377	
37	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,413,651	\$ 2,299,735	\$ 2,093,130	\$ 2,037,188	\$ 28,074,799
39	SC General Service (non-demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	\$ 89,985	\$ 146,388	\$ 133,237	\$ 129,676	\$ 1,633,497
40	Projected SC General Service (non-demand) kWh Sales	WP8a	18,802,778	23,902,363	24,173,210	25,241,053	389,612,876
41	SC General Service (non-demand) Capacity Related Cost Incurred (¢/kWh)	Line 39 / Line 40 * 100	0.479	0.612	0.551	0.514	
42	SC General Service (non-demand) Non-Fuel Base Rates Billed (¢/kWh)	2018-1-E	0.426	0.426	0.426	0.426	
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ 9,884	\$ 44,564	\$ 30,259	\$ 22,149	\$ 31,134
44	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 43	\$ (100,161)	\$ (55,597)	\$ (25,338)	\$ (3,189)	(3,189)
45	Adjustment(s)						-
46	Adjusted Cumulative SC General Service (non-demand) Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ (3,189)
47	SC Projected General Service (non-demand) kWh Sales July 2019 - June 2020	WP8a					299,773,076
48	SC Projected General Service (non-demand) Capacity Related Increment / (Decrement) Calculated Rate (¢/kWh)	(Line 46 / Line 47 * 100)					(0.001)

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.		General Service (demand)
1	Winter 2018 Firm Coincident Peak (CP) kW's	32.73%
2	Winter 2017 Firm Coincident Peak (CP) kW's	35.43%

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
3	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 3,501,027	\$ 5,769,066	\$ 5,660,960	\$ 9,096,212	\$ 9,511,571	\$ 9,360,396
4	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	11,019,595	10,681,190	10,961,570	10,765,277	10,589,252	10,930,096
5	Total Capacity Related Costs	Lines 3 + Line 4	\$ 14,520,622	\$ 16,450,256	\$ 16,622,530	\$ 19,861,489	\$ 20,100,823	\$ 20,290,492
6	Total System kWh Sales	Monthly Fuel Filings	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
7	Capacity Related System Costs Incurred (¢/kWh)	Line 5 / Line 6 * 100	0.312	0.366	0.358	0.350	0.326	0.327
8	SC Retail Sales kWh	Monthly Fuel Filings	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
9	SC Capacity Related Costs Incurred	Line 7 * Line 8 / 100	\$ 1,282,385.09	\$ 1,951,892	\$ 1,652,101	\$ 1,829,943	\$ 2,145,964	\$ 2,034,609
10	SC General Service (demand) Capacity Related Cost Allocated by Firm CP	Line 9 * Line 2	\$ 454,290	\$ 691,466	\$ 585,264	\$ 648,265	\$ 760,217	\$ 720,769
11	SC General Service (demand) kW Sales	Monthly Fuel Filing	657,929	666,086	652,200	669,014	703,175	805,885
12	SC General Service (demand) Capacity Related Costs Incurred (¢/kW)	Line 10 / Line 11 * 100	69	104	90	97	108	89
13	SC General Service (demand) Non-Fuel Base Rates Billed (¢/kW)	2017-1-E, 2018-1-E	96	96	96	96	93	84
14	SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	(Line 12 - Line 13)*Line 11 / 100	\$ (177,328)	\$ 52,027	\$ (40,847)	\$ 5,910	\$ 108,039	\$ 47,571
15	Prior Year Balance	2018-1-E	\$ 584,157					
16	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 14	\$ 406,829	\$ 458,856	\$ 418,009	\$ 423,919	\$ 531,958	\$ 579,529

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
17	PURPA Purchased Power Capacity Costs	Monthly Fuel Filing	\$ 9,533,487	\$ 2,509,771	\$ 3,787,242	\$ 2,047,397	\$ 4,233,736	\$ 5,175,127	\$ 70,185,992
18	Firm Natural Gas Transportation and Storage Costs	Monthly Fuel Filing	10,231,278	9,779,505	11,410,673	11,126,924	10,513,351	10,049,308	128,058,019
19	Total Capacity Related Costs	Line 17 + Line 18	\$ 19,764,765	\$ 12,289,276	\$ 15,197,915	\$ 13,174,321	\$ 14,747,087	\$ 15,224,435	\$ 198,244,011
20	Total System kWh Sales	Monthly Fuel Filings	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
21	Capacity Related System Costs Incurred (¢/kWh)	Line 19 / Line 20 * 100	0.364	0.239	0.322	0.273	0.263	0.299	
22	SC Retail Sales kWh	Monthly Fuel Filings	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
23	SC Capacity Related Costs Incurred	Line 21 * Line 22 / 100	\$ 1,862,202	\$ 1,380,195	\$ 1,624,889	\$ 1,215,179	\$ 1,589,409	\$ 1,662,326	\$ 20,231,094
24	SC General Service (demand) Capacity Related Cost Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	\$ 659,693	\$ 488,940	\$ 575,624	\$ 430,482	\$ 520,167	\$ 544,031	\$ 7,079,207
25	SC General Service (demand) kW Sales	Monthly Fuel Filing	885,000	704,900	647,300	621,700	409,400	671,000	8,093,589
26	SC General Service (demand) Capacity Related Costs Incurred (¢/kW)	Line 24 / Line 25 * 100	75	69	89	69	127	81	
27	SC General Service (demand) Non-Fuel Base Rates Billed (¢/kW)	2018-1-E	89	88	89	88	88	88	
28	SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	(Line 26 - Line 27)*Line 25 / 100	\$ (124,855)	\$ (131,300)	\$ 2,695	\$ (116,635)	\$ 159,866	\$ (46,087)	\$ (260,944)
29	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 28	\$ 454,674	\$ 323,374	\$ 326,069	\$ 209,434	\$ 369,300	\$ 323,213	323,213
30	Adjustment(s)								-
31	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Line 29 + Line 30							\$ 323,213

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2018 - JUNE 2019

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Line No.		General Service (demand)						
1	Winter 2018 Firm Coincident Peak (CP) kW	32.73%						
2	Winter 2017 Firm Coincident Peak (CP) kW	35.43%						

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
32	PURPA Purchased Power Capacity Costs	WP 11	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331	\$ 95,808,749
33	Firm Natural Gas Transportation and Storage Costs	WP 11	11,128,452	13,289,963	11,592,740	12,570,091	176,639,265
34	Total Capacity Related Costs	Line 32 + Line 33	\$ 15,468,664	\$ 20,185,762	\$ 18,953,155	\$ 19,596,421	\$ 272,448,014
35	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
36	Capacity Related System Costs Incurred (c/kWh)	Line 34 / Line 35 * 100	0.340	0.450	0.426	0.377	
37	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,413,651	\$ 2,299,735	\$ 2,093,130	\$ 2,037,188	\$ 28,074,799
39	SC General Service (demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	\$ 462,647	\$ 752,636	\$ 685,021	\$ 666,713	\$ 9,646,224
40	Projected SC General Service (demand) kW Sales	WP8a	645,500	696,605	771,394	824,008	11,031,096
41	SC General Service (demand) Capacity Related Costs Incurred (c/kW)	Line 39 / Line 40 * 100	72	108	89	81	
42	SC General Service (demand) Non-Fuel Base Rates Billed (c/kW)	2018-1-E	88	88	88	88	
43	SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	(Line 41 - Line 42)*Line 40 /100	\$ (105,411)	\$ 139,624	\$ 6,194	\$ (58,414)	\$ (278,951)
44	Adjusted Cumulative SC General Service (demand) Capacity Related (Over) / Under Recovery	Prior Month Cum. Bal + Line 43	\$ 217,802	\$ 357,426	\$ 363,620	\$ 305,206	\$ 305,206
45	Adjustment(s)						-
46	Adjusted Cumulative SC General Service (demand) Capacity Related Costs (Over) / Under Recovery	Line 44 + Line 45					\$ 305,206
47	SC Projected General Service (demand) kW Sales July 2019 - June 2020	WP8a					9,063,849
48	SC General Service (demand) Environmental Capacity Related Increment / (Decrement) Calculated Rate (c/kW)	(Line 46 / Line 47 * 100)					3

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED CAPACITY RELATED COSTS
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020

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Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
6	PURPA Purchased Power Capacity Costs	WP 11	\$ 7,019,425	\$ 7,039,482	\$ 6,319,877	\$ 6,113,809	\$ 5,391,156	\$ 5,198,877
7	Firm Natural Gas Transportation and Storage Costs	WP 11	12,505,745	12,533,366	12,494,887	12,772,631	13,204,814	12,442,182
8	Total Capacity Related Costs	Line 6 + Line 7	\$ 19,525,170	\$ 19,572,848	\$ 18,814,763	\$ 18,886,440	\$ 18,595,970	\$ 17,641,060
9	Total Projected System Sales kWh (w/ solar)	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	Capacity Related System Costs Incurred (c/Kwh)	Line 8 / Line 9 *100	0.328	0.326	0.343	0.404	0.405	0.341
11	Projected SC Retail Sales	WP8	615,370,381	630,455,795	602,829,492	524,692,648	500,969,344	552,701,752
12	SC Purchased Power Capacity Costs	Line 10 * Line 11 /100	\$ 2,018,139	\$ 2,052,877	\$ 2,068,863	\$ 2,121,196	\$ 2,027,052	\$ 1,884,965

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
13	PURPA Purchased Power Capacity Costs	WP 11	\$ 5,668,143	\$ 5,649,634	\$ 6,865,836	\$ 7,138,992	\$ 7,756,554	\$ 7,371,349	\$ 77,533,133
14	Firm Natural Gas Transportation and Storage Costs	WP 11	11,945,915	11,916,756	12,815,891	12,433,847	11,556,092	12,160,411	148,782,538
15	Total Capacity Related Costs	Line 13 + Line 14	\$ 17,614,058	\$ 17,566,391	\$ 19,681,727	\$ 19,572,840	\$ 19,312,645	\$ 19,531,760	\$ 226,315,671
16	Total Projected System Sales kWh (w/ solar)	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267
17	Capacity Related System Costs Incurred (c/Kwh)	Line 15 / Line 16 *100	0.310	0.321	0.392	0.442	0.439	0.380	
18	Projected SC Retail Sales	WP8	605,095,272	594,590,939	555,942,153	512,389,178	493,993,336	541,309,853	6,730,340,143
19	SC Purchased Power Capacity Costs	Line 17 * Line 18 /100	\$ 1,876,594	\$ 1,910,845	\$ 2,178,370	\$ 2,266,974	\$ 2,169,881	\$ 2,058,460	\$ 24,634,216

SC Capacity Related Costs Allocated on Firm CP kW's

20	Residential	Total Line 19 * Line 1							\$ 15,004,080
21	General Service (non-demand)	Total Line 19 * Line 2							1,568,073
22	General Service (demand)	Total Line 19 * Line 3							8,062,063
23	Lighting	Total Line 19 * Line 4							-
24	Total SC	Sum Lines 20 through 23							\$ 24,634,216

Projected SC Retail Sales kWh (July 2019-June 2020)

25	Residential	WP8a							2,301,521,005
26	General Service (non-demand)	WP8a							299,773,076
27	General Service (demand)	WP8a							4,032,970,877
28	Lighting	WP8a							96,075,184
29	Total SC	Sum Lines 25 through 28							6,730,340,143

SC Capacity Related Costs c/kWh

30	Residential	Line 20 / Line 25 * 100							0.652
31	General Service (non-demand)	Line 21 / Line 26 * 100							0.523
32	Lighting	Line 23 / Line 28 * 100							0.000

33	Projected SC KW Sales (General Service demand)	WP8a							9,063,849
34	General Service Demand charge for Capacity Related Costs c/kW	Line 22 / Line 33 * 100							89

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Revised Exhibit 9

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Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
DERP Incremental Costs								
1	Purchased Power Agreements	Monthly Fuel Filing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	DER NEM Incentive	Monthly Fuel Filing	24,186	22,698	29,771	91,945	48,033	53,650
3	Solar Rebate Program - Amortization	Monthly Fuel Filing	50,020	57,739	62,207	67,717	74,720	75,168
4	Solar Rebate Program - Carrying Costs	Monthly Fuel Filing	48,869	52,675	58,593	63,354	69,382	67,150
5	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-
5	NEM Avoided Capacity Costs	Monthly Fuel Filing	1,307	237	2,228	5,468	1,940	2,351
6	NEM Meter Costs	Monthly Fuel Filing	3,320	3,597	5,323	6,296	9,389	9,691
7	General and Administrative Expenses	Monthly Fuel Filing	35,802	26,444	24,650	25,156	51,552	27,112
8	Interest on under-collection due to cap	ORS AIR 1-81	-	-	27	25	51	38
9	Total DER Incremental Costs	Sum Lines 1 through 8	\$ 163,504	\$ 163,390	\$ 182,799	\$ 259,961	\$ 255,067	\$ 235,160
10	Revenue Collected	Monthly Fuel Filing	256,291	256,062	256,432	255,244	213,306	174,342
11	SC DERP Incremental Costs (Over) / Under Recovery	Line 9 - Line 10	\$ (92,787)	\$ (92,672)	\$ (73,633)	\$ 4,717	\$ 41,761	\$ 60,818
12	(Over) / Under Cumulative Balance - February 2018	2018-1-E	(448,552)					
13	Adjustments							
14	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 11 + Line 13	\$ (541,339)	\$ (634,011)	\$ (707,644)	\$ (702,927)	\$ (661,166)	\$ (600,348)

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
DERP Incremental Costs									
15	Purchased Power Agreements	Monthly Fuel Filing	\$ -	\$ -	\$ -	\$ -	\$ 56,557	\$ 4,087	\$ 60,644
16	DER NEM Incentive	Monthly Fuel Filing	58,504	55,356	62,396	66,475	72,360	76,526	661,901
17	Solar Rebate Program - Amortization	Monthly Fuel Filing	75,168	75,168	77,317	77,317	77,317	77,317	847,174
18	Solar Rebate Program - Carrying Costs	Monthly Fuel Filing	72,014	71,404	72,070	72,724	72,288	71,853	792,376
19	Shared Solar Program	Monthly Fuel Filing	-	(5)	(147)	219	(79)	(250)	(262)
20	NEM Avoided Capacity Costs	Monthly Fuel Filing	2,529	1,797	2,501	2,658	2,710	2,419	28,145
21	NEM Meter Costs	Monthly Fuel Filing	7,206	7,376	7,522	7,736	7,824	8,510	83,790
22	General and Administrative Expenses	Monthly Fuel Filing	24,208	27,419	32,345	42,639	44,132	16,918	378,377
23	Interest on under-collection due to cap	ORS AIR 1-81	50	43	55	66	37	33	425
24	Total DER Incremental Costs	Sum Lines 15 through 23	\$ 239,679	\$ 238,558	\$ 254,058	\$ 269,834	\$ 333,146	\$ 257,413	\$ 2,852,570
25	Revenue Collected	Monthly Fuel Filing	157,397	172,809	164,964	157,891	167,477	165,563	2,397,778
26	SC DERP Incremental Costs (Over) / Under Recovery	Line 24 - Line 25	\$ 82,282	\$ 65,749	\$ 89,094	\$ 111,943	\$ 165,669	\$ 91,850	\$ 454,792
27	Adjustments								-
28	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 26 + Line 27	\$ (518,066)	\$ (452,317)	\$ (363,223)	\$ (251,280)	\$ (85,611)	\$ 6,239	\$ 6,239

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Revised Exhibit 9
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Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
DERP Incremental Costs							
29	Purchased Power Agreements	DERP Model Output	\$ 2,642	\$ 5,028	\$ 5,028	\$ 5,028	\$ 78,369
30	DER NEM Incentive	DERP Model Output	81,081	86,646	90,495	96,857	1,016,980
31	Solar Rebate Program - Amortization	DERP Model Output	77,317	(177,456)	43,523	44,252	834,810
32	Solar Rebate Program - Carrying Costs	DERP Model Output	71,417	72,521	73,609	40,674	1,050,597
33	Shared Solar Program	DERP Model Output	249	10,212	10,212	10,212	30,624
34	NEM Avoided Capacity Costs	DERP Model Output	2,909	3,123	3,212	3,377	40,766
35	NEM Meter Costs	DERP Model Output	8,455	9,024	9,228	9,442	119,938
36	General and Administrative Expenses	DERP Model Output	22,856	29,841	29,841	29,841	490,756
37	Interest on under-collection due to cap	Actuals Average	37	42	42	42	588
38	Total DER Incremental Costs	Sum Lines 29 through 37	\$ 266,963	\$ 38,981	\$ 265,190	\$ 239,725	\$ 3,663,428
39	Revenue Collected	WP9	165,840	165,454	165,541	165,629	3,060,242
40	SC DERP Incremental Costs (Over) / Under Recovery	Line 38 - Line 39	\$ 101,123	\$ (126,473)	\$ 99,649	\$ 74,096	\$ 603,186
41	Adjustments						-
42	Cumulative SC DERP Incremental Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 40 + Line 41	\$ 107,363	\$ (19,110)	\$ 80,538	\$ 154,634	\$ 154,634

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF DERP INCREMENTAL COSTS (OVER) / UNDER RECOVERY
FOR THE PERIOD MARCH 2018 - JUNE 2019

Harrington Revised Exhibit 10
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Line No.			March 2018 through December 2018	January 2019 through June 2019	
1	Total DERP (Over) / Under Balance	Exhibit 9	(251,280)	405,914	
	Allocation of DERP Incremental (Over) / Under Recovery		Firm Peak Demand - 2017	March 2018 through December 2018	Cost Allocated per Firm Peak Demand
2	Residential	WP8c	59.11%		\$ (148,541)
3	Commercial (General Service demand /non-demand)	WP8c	23.46%		(58,948)
4	Industrial (General Service demand /non-demand)	WP8c	17.43%		(43,791)
5	Total		100.00%	(251,280)	\$ (251,280)
	Allocation of DERP Incremental (Over) / Under Recovery		Firm Peak Demand - 2018	January 2019 through June 2019	Cost Allocated per Firm Peak Demand
6	Residential		60.91%		247,233
7	Commercial (General Service demand /non-demand)		24.11%		97,863
8	Industrial (General Service demand /non-demand)		14.98%		60,819
9	Total		100.00%	405,914	405,914
			Total Cost Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period	\$ per Account per Year \$ per Account per Month
10	Residential	Cost Line 2 + Line 6	\$ 98,692	140,028	\$ 0.70 \$ 0.06
11	Commercial (General Service demand /non-demand)	Cost Line 3 + Line 7	38,915	31,323	\$ 1.24 \$ 0.10
12	Industrial (General Service demand /non-demand)	Cost Line 4 + Line 8	17,028	266	\$ 64.01 \$ 5.33
13	Total		\$ 154,634	171,617	

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS
FOR THE 12 MONTHS JULY 2019 - JUNE 2020

Harrington Revised Exhibit 11
Docket No. 2019-1-E

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
DERP Incremental Costs								
1	Purchased Power Agreements	DERP Model Output	\$ 5,016	\$ 5,016	\$ 5,016	\$ 5,016	\$ 5,016	\$ 5,016
2	DER NEM Incentive	DERP Model Output	105,068	97,577	90,215	86,821	70,858	55,199
3	Solar Rebate Program - Amortization	DERP Model Output	47,069	47,069	47,791	49,395	49,395	54,595
4	Solar Rebate Program - Carrying Costs	DERP Model Output	42,150	43,259	43,356	44,223	44,733	46,982
5	Shared Solar Program	DERP Model Output	6,486	6,486	6,486	6,486	6,486	6,486
6	NEM Avoided Capacity Costs	DERP Model Output	3,351	3,417	3,498	3,602	3,659	3,854
7	NEM Meter Costs	DERP Model Output	9,646	9,830	10,005	10,171	10,316	10,457
8	General and Administrative Expenses	DERP Model Output	41,446	41,446	41,446	41,446	41,446	41,446
9	Interest on under-collection due to cap	Actuals Average	42	42	42	42	42	42
10	Total DERP Incremental Costs	Sum Lines 1 through 9	\$ 260,274	\$ 254,142	\$ 247,856	\$ 247,202	\$ 231,952	\$ 224,077

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
DERP Incremental Costs									
11	Purchased Power Agreements	DERP Model Output	\$ 4,991	\$ 4,991	\$ 4,991	\$ 4,991	\$ 4,991	\$ 4,991	60,045
12	DER NEM Incentive	DERP Model Output	70,804	74,214	99,828	119,624	122,282	126,729	1,119,220
13	Solar Rebate Program - Amortization	DERP Model Output	54,595	54,595	54,595	54,595	54,595	54,595	622,882
14	Solar Rebate Program - Carrying Costs	DERP Model Output	49,202	48,909	48,616	48,322	48,029	47,736	555,517
15	Shared Solar Program	DERP Model Output	6,413	6,413	6,413	6,413	6,413	6,413	77,392
16	NEM Avoided Capacity Costs	DERP Model Output	3,926	3,963	3,998	4,031	4,062	4,090	45,451
17	NEM Meter Costs	DERP Model Output	10,589	10,700	10,802	10,895	10,977	11,050	125,439
18	General and Administrative Expenses	DERP Model Output	21,838	21,838	21,838	21,838	21,838	21,838	379,704
19	Interest on under-collection due to cap	Actuals Average	42	42	42	42	42	42	504
20	Total DERP Incremental Costs	Sum Lines 11 through 19	\$ 222,399	\$ 225,665	\$ 251,123	\$ 270,751	\$ 273,229	\$ 277,484	2,986,154

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED BILLING PERIOD INCREMENTAL COST FACTORS FOR DERP COSTS
FOR THE PERIOD JULY 2019 - JUNE 2020

<u>Line No.</u>		<u>July 2019 through June 2020</u>	
1	Total DERP Projected Incremental Costs	Exhibit 11	2,986,154
Allocation of DERP Incremental Costs			
		Firm Peak Demand - 2018	July 2019 through June 2020
2	Residential	WP8c	60.91%
3	Commercial (General Service demand /non-demand)	WP8c	24.11%
4	Industrial (General Service demand /non-demand)	WP8c	14.98%
5	Total		100.00%
			2,986,154
			\$ 2,986,154
		Cost Allocated per Firm Peak Demand	
6	Residential	Cost Line 2	\$ 1,818,794
7	Commercial (General Service demand /non-demand)	Cost Line 3	719,940
8	Industrial (General Service demand /non-demand)	Cost Line 4	447,420
9	Total		\$ 2,986,154
		Projected Number of Accounts in Billing Period	\$ per Account per Year
6	Residential	Cost Line 2	\$ 1,818,794 140,028 \$ 12.99 [1]
7	Commercial (General Service demand /non-demand)	Cost Line 3	719,940 31,323 \$ 22.98
8	Industrial (General Service demand /non-demand)	Cost Line 4	447,420 266 \$ 1,682.03 [1]
9	Total		\$ 2,986,154 171,617

Note:

[1] Residential and Industrial annual charge per-account will be capped not to exceed \$12 and \$1,200, respectively, including gross receipts taxes.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

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Line No.	Class	Winter 2017 Firm Coincident Peak (CP) KWs	CP %	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	708,895	59.11%	777,822	60.91%
2	General Service (non-demand)	65,487	5.46%	81,290	6.37%
3	General Service (demand)	424,824	35.43%	417,943	32.73%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,199,206	100.00%	1,277,055	100.00%

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
6	Purchased Power Agreements	Monthly Fuel Filing	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
7	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
9	Total System kWh Sales	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
10	DERP Avoided System Costs (¢/kWh)	Line 8 / Line 9 * 100	0.001	0.001	0.001	0.000	0.001	0.003
11	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 6,010	\$ 15,933
13	SC Residential DER Avoided Costs Allocated by Firm CP	Line 12 * Line 1	\$ 2,554	\$ 4,419	\$ 3,945	\$ 1,368	\$ 3,553	\$ 9,419
14	SC Residential kWh Sales	Monthly Fuel Filing	143,961,446	142,967,229	126,649,812	183,269,324	209,653,372	205,859,617
15	SC Residential DERP Avoided Cost (¢/kWh)	Line 13 / Line 14 * 100	0.002	0.003	0.003	0.001	0.002	0.005
16	SC Residential Rate Billed (¢/kWh)	2017-1-E, 2018-1-E	0.000	0.000	0.000	0.000	0.001	0.003
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$ 2,554	\$ 4,419	\$ 3,945	\$ 1,368	\$ 755	\$ 3,500
18	Prior Year Balance	2018-1-E	\$ 1,591					
19	Adjusted Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17	\$ 4,145	\$ 8,563	\$ 12,508	\$ 13,876	\$ 14,631	\$ 18,131

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
20	Purchased Power Agreements	Monthly Fuel Filing	\$ 96,632	\$ (15,529)	\$ 60,191	\$ 22,291	\$ (33,874)	\$ 38,071	\$ 587,151
21	Shared Solar Program	Monthly Fuel Filing	-	49	167	186	176	648	1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ 96,632	\$ (15,480)	\$ 60,358	\$ 22,477	\$ (33,698)	\$ 38,719	\$ 588,377
23	Total System kWh Sales	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
24	DERP Avoided System Costs (¢/kWh)	Line 22 / Line 23 * 100	0.002	(0.000)	0.001	0.000	(0.001)	0.001	
25	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ 9,105	\$ (1,739)	\$ 6,453	\$ 2,073	\$ (3,632)	\$ 4,228	\$ 59,214
27	SC Residential DER Avoided Costs Allocated by Firm CP	Line 26 * Line 1	\$ 5,382	\$ (1,028)	\$ 3,815	\$ 1,226	\$ (2,212)	\$ 2,575	\$ 35,014
28	SC Residential kWh Sales	Monthly Fuel Filing	192,472,913	166,363,331	135,084,422	188,450,930	199,934,867	206,574,763	2,101,242,026
29	SC Residential DERP Avoided Cost (¢/kWh)	Line 27 / Line 28 * 100	0.003	(0.001)	0.003	0.001	(0.001)	0.001	0.002
30	SC Residential Rate Billed (¢/kWh)	2018-1-E	0.003	0.003	0.003	0.003	0.003	0.003	0.003
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$ (348)	\$ (5,959)	\$ (208)	\$ (4,388)	\$ (7,812)	\$ (3,579)	\$ (5,755)
32	Adjustment(s)								-
33	Adjusted Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 31	\$ 17,783	\$ 11,824	\$ 11,616	\$ 7,227	\$ (585)	\$ (4,164)	\$ (4,164)

DUKE ENERGY PROGRESS, LLC
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Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Purchased Power Agreements	DERP Model Output	\$ 29,819	\$ 39,730	\$ 42,730	\$ 39,730	\$ 739,161
35	Shared Solar Program	DERP Model Output	537	\$ 9,933	\$ 9,933	\$ 9,933	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$ 30,356	\$ 49,663	\$ 52,663	\$ 49,663	\$ 770,721
37	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
38	DERP Avoided System Costs (¢/kWh)	Line 36 / Line 37 * 100	0.001	0.001	0.001	0.001	
39	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$ 2,774	\$ 5,658	\$ 5,816	\$ 5,163	\$ 78,625
41	SC Residential DER Avoided Costs Allocated by Firm CP	Line 40 * Line 1	\$ 1,690	\$ 3,446	\$ 3,542	\$ 3,145	\$ 46,837
42	Projected SC Residential kWh Sales	WP8a	150,838,802	161,472,415	138,607,950	171,939,263	2,724,100,457
43	SC Residential DERP Avoided Cost (¢/kWh)	Line 41 / Line 42 * 100	0.001	0.002	0.003	0.002	0.002
44	SC Residential Rate Billed (¢/kWh)	2018-1-E	0.003	0.003	0.003	0.003	0.003
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44)*Line 42 /100	\$ (2,803)	\$ (1,398)	\$ (616)	\$ (2,014)	\$ (12,586)
46	Adjustment(s)						-
47	Adjusted Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 45 + Line 46	\$ (6,967)	\$ (8,365)	\$ (8,981)	\$ (10,995)	\$ (10,995)
48	SC Projected Residential kWh Sales Jul'19 - Jun'20	WP8a					2,301,521,005
49	SC Residential DERP Avoided Costs Increment / (Decrement) (¢/kWh)	Line 47 / Line 48 * 100					0.000

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
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Line No.	Class	Winter 2017 Firm Coincident Peak	CP %	Winter 2018 Firm Coincident Peak	CP %
		(CP) KWs		(CP) KWs	
1	Residential	708,895	59.11%	777,822	60.91%
2	General Service (non-demand)	65,487	5.46%	81,290	6.37%
3	General Service (demand)	424,824	35.43%	417,943	32.73%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,199,206	100.00%	1,277,055	100.00%

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
6	Purchased Power Agreements	Monthly Fuel Filing	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
7	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
9	Total System kWh Sales	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100	0.001	0.001	0.001	0.000	0.001	0.003
11	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 6,010	\$ 15,933
13	SC General Service (non-demand) DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 2	\$ 236	\$ 408	\$ 364	\$ 127	\$ 328	\$ 870
14	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	18,983,274	19,396,612	19,878,431	27,515,526	30,997,729	31,253,114
15	SC General Service (non-demand) DERP Avoided Cost (c/kWh)	Line 13 / Line 14 * 100	0.001	0.002	0.002	0.000	0.001	0.003
16	SC General Service (non-demand) Rate Billed (c/kWh)	2017-1-E, 2018-1-E	0.000	0.000	0.000	0.000	0.000	0.001
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$ 236	\$ 408	\$ 364	\$ 127	\$ 189	\$ 568
18	Prior Year Balance	2018-1-E	\$ 148					
19	Cumulative SC General Service (non-demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17 + Line 18	\$ 384	\$ 792	\$ 1,156	\$ 1,284	\$ 1,473	\$ 2,041

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
20	Purchased Power Agreements	Monthly Fuel Filing	\$ 96,632	\$ (15,529)	\$ 60,191	\$ 22,291	\$ (33,874)	\$ 38,071	\$ 587,151
21	Shared Solar Program	Monthly Fuel Filing	-	49	167	186	176	648	1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ 96,632	\$ (15,480)	\$ 60,358	\$ 22,477	\$ (33,698)	\$ 38,719	\$ 588,377
23	Total System kWh Sales	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100	0.002	(0.000)	0.001	0.000	(0.001)	0.001	
25	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ 9,105	\$ (1,739)	\$ 6,453	\$ 2,073	\$ (3,632)	\$ 4,228	\$ 59,214
27	SC General Service (non-demand) DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 2	\$ 497	\$ (95)	\$ 352	\$ 113	\$ (231)	\$ 269	\$ 3,240
28	SC General Service (non-demand) kWh Sales	Monthly Fuel Filing	29,398,859	25,905,784	43,187,370	1,109,696	24,675,505	25,191,572	297,493,472
29	SC General Service (non-demand) DERP Avoided Cost (c/kWh)	Line 27 / Line 28 * 100	0.002	(0.000)	0.001	0.010	(0.001)	0.001	0.001
30	SC General Service (non-demand) Rate Billed (c/kWh)	2018-1-E	0.001	0.001	0.001	0.001	0.001	0.001	0.0010
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$ 203	\$ (354)	\$ (80)	\$ 102	\$ (399)	\$ 17	\$ 1,383
32	Adjustment(s)								-
33	Cumulative SC General Service (non-demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 31 + Line 32	\$ 2,244	\$ 1,890	\$ 1,811	\$ 1,913	\$ 1,514	\$ 1,531	\$ 1,531

DUKE ENERGY PROGRESS, LLC
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Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Purchased Power Agreements	DERP Model Output	\$ 29,819	\$ 39,730	\$ 42,730	\$ 39,730	\$ 739,161
35	Shared Solar Program	DERP Model Output	537	9,933	9,933	9,933	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$ 30,356	\$ 49,663	\$ 52,663	\$ 49,663	\$ 770,721
37	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
38	DERP Avoided System Costs (¢/kWh)	Line 36 / Line 37 * 100	0.001	0.001	0.001	0.001	
39	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$ 2,774	\$ 5,658	\$ 5,816	\$ 5,163	\$ 78,625
41	SC General Service (non-demand) DERP Avoided Costs Allocated by Firm CP	Line 40 * Line 2	\$ 177	\$ 360	\$ 370	\$ 329	\$ 4,476
42	Projected SC General Service (non-demand) kWh Sales	WP8a	18,802,778	23,902,363	24,173,210	25,241,053	389,612,876
43	SC General Service (non-demand) DERP Avoided Cost (¢/kWh)	Line 41 / Line 42 * 100	0.001	0.002	0.002	0.001	0.001
44	SC General Service (non-demand) Rate Billed (¢/kWh)	2018-1-E	0.001	0.001	0.001	0.001	0.001
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44)*Line 42 /100	\$ (12)	\$ 121	\$ 128	\$ 76	\$ 1,696
46	Adjustment(s)						-
47	Cumulative SC General Service (non-demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 45 + Line 46	\$ 1,519	\$ 1,640	\$ 1,768	\$ 1,844	\$ 1,844
48	SC Projected General Service (non-demand) kWh Sales Jul'19 - Jun'20	WP8a					299,773,076
49	SC General Service (non-demand) DERP Avoided Costs Increment / (Decrement) (¢/kWh)	Line 47 / Line 48 * 100					0.001

DUKE ENERGY PROGRESS, LLC
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Line No.	Class	Winter 2017 Firm Coincident Peak	CP %	Winter 2018 Firm Coincident Peak	CP %
		(CP) KWs		(CP) KWs	
1	Residential	708,895	59.11%	777,822	60.91%
2	General Service (non-demand)	65,487	5.46%	81,290	6.37%
3	General Service (demand)	424,824	35.43%	417,943	32.73%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,199,206	100.00%	1,277,055	100.00%

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
6	Purchased Power Agreements	Monthly Fuel Filing	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
7	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
9	Total System kWh Sales	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100	0.001	0.001	0.001	0.000	0.001	0.003
11	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 6,010	\$ 15,933
13	SC General Service (demand) DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 3	\$ 1,530	\$ 2,648	\$ 2,364	\$ 820	\$ 2,129	\$ 5,644
14	SC General Service (demand) kW Sales	Monthly Fuel Filing	657,929	666,086	652,200	669,014	703,175	805,885
15	SC General Service (demand) DERP Avoided Costs (c/kWh)	Line 13 / Line 14 * 100	0.233	0.398	0.362	0.123	0.303	0.700
16	SC General Service (demand) Rate Billed (c/kWh)	2017-1-E, 2018-1-E	0.000	0.000	0.000	0.000	0.000	0.000
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$ 1,530	\$ 2,648	\$ 2,364	\$ 820	\$ 2,129	\$ 5,644
18	Prior Year Balance and Misc. Adjustment(s)	2018-1-E	\$ 975					
19	Cumulative SC General Service (demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17 + Line 18	\$ 2,505	\$ 5,153	\$ 7,517	\$ 8,337	\$ 10,466	\$ 16,111

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
20	Purchased Power Agreements	Monthly Fuel Filing	\$ 96,632	\$ (15,529)	\$ 60,191	\$ 22,291	\$ (33,874)	\$ 38,071	\$ 587,151
21	Shared Solar Program	Monthly Fuel Filing	-	49	167	186	176	648	1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ 96,632	\$ (15,480)	\$ 60,358	\$ 22,477	\$ (33,698)	\$ 38,719	\$ 588,377
23	Total System kWh Sales	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100	0.002	(0.000)	0.001	0.000	(0.001)	0.001	
25	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ 9,105	\$ (1,739)	\$ 6,453	\$ 2,073	\$ (3,632)	\$ 4,228	\$ 59,214
27	SC General Service (demand) DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 3	\$ 3,226	\$ (616)	\$ 2,286	\$ 734	\$ (1,190)	\$ 1,384	\$ 20,961
28	SC General Service (demand) kW Sales	Monthly Fuel Filing	885,000	704,900	647,300	621,700	409,400	671,000	8,093,589
29	SC General Service (demand) DERP Avoided Costs (c/kWh)	Line 27 / Line 28 * 100	0.36	(0.09)	0.35	0.12	(0.29)	0.21	0.26
30	SC General Service (demand) Rate Billed (c/kWh)	2018-1-E	-	-	-	-	-	-	
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$ 3,226	\$ (616)	\$ 2,286	\$ 734	\$ (1,205)	\$ 1,384	\$ 20,946
32	Adjustment(s)								-
33	Cumulative SC General Service (demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 31 + Line 32	\$ 19,337	\$ 18,721	\$ 21,007	\$ 21,742	\$ 20,537	\$ 21,921	\$ 21,921

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
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Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Purchased Power Agreements	DERP Model Output	\$ 29,819	\$ 39,730	\$ 42,730	\$ 39,730	\$ 739,161
35	Shared Solar Program	DERP Model Output	537	9,933	9,933	9,933	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$ 30,356	\$ 49,663	\$ 52,663	\$ 49,663	\$ 770,721
37	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
38	DERP Avoided System Costs (¢/kWh)	Line 36 / Line 37 * 100	0.001	0.001	0.001	0.001	
39	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$ 2,774	\$ 5,658	\$ 5,816	\$ 5,163	\$ 78,625
41	SC General Service (demand) DERP Avoided Costs Allocated by Firm CP	Line 40 * Line 3	\$ 908	\$ 1,852	\$ 1,903	\$ 1,690	\$ 27,313
42	Projected SC General Service (demand) kW Sales	WP8a	645,500	696,605	771,394	824,008	11,031,096
43	SC General Service (demand) DERP Avoided Costs (¢/kWh)	Line 41 / Line 42 * 100	0.141	0.266	0.247	0.205	0.248
44	SC General Service (demand) Rate Billed (¢/kWh)	2018-1-E	-	-	-	-	-
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44)*Line 42 /100	\$ 908	\$ 1,852	\$ 1,903	\$ 1,690	\$ 27,298
46	Adjustment(s)						-
47	Cumulative SC General Service (demand) DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 45 + Line 46	\$ 22,829	\$ 24,680	\$ 26,584	\$ 28,273	\$ 28,273
48	SC Projected General Service (demand) KW Sales Jul'19-Jun'20	WP8a					9,063,849
49	SC General Service (demand) DERP Avoided Cost Increment / (Decrement) (¢/kW)	Line 47 / Line 48 * 100					0.312

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
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Line No.	Class	Winter 2017 Firm Coincident Peak	CP %	Winter 2018 Firm Coincident Peak	CP %
		(CP) KWs		(CP) KWs	
1	Residential	708,895	59.11%	777,822	60.91%
2	General Service (non-demand)	65,487	5.46%	81,290	6.37%
3	General Service (demand)	424,824	35.43%	417,943	32.73%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,199,206	100.00%	1,277,055	100.00%

Line No.	Description	Reference	Actual March 2018	Actual April 2018	Actual May 2018	Actual June 2018	Actual July 2018	Actual August 2018
6	Purchased Power Agreements	Monthly Fuel Filing	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
7	Shared Solar Program	Monthly Fuel Filing	-	-	-	-	-	-
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 48,912	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,297	\$ 158,899
9	Total System kWh Sales	Monthly Fuel Filing	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072
10	DERP Avoided Costs (c/kWh)	Line 8 / Line 9 * 100	0.001	0.001	0.001	0.000	0.001	0.003
11	SC Retail Sales kWh	Monthly Fuel Filing	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 6,010	\$ 15,933
13	SC Lighting DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	SC Lighting kWh Sales	Monthly Fuel Filing	6,689,961	6,728,220	6,641,827	6,621,076	6,680,462	6,850,282
15	SC Lighting DERP Avoided Costs (c/kWh)	Line 13 / Line 14 * 100	0.000	0.000	0.000	0.000	0.000	0.000
16	SC Lighting Rate Billed (c/kWh)	2017-1-E, 2018-1-E	0.000	0.000	0.000	0.000	0.000	0.000
17	SC DERP Avoided Costs (Over) / Under Recovery	(Line 15 - Line 16)*Line 14 /100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	Prior Year Balance and Misc. Adjustment(s)	2018-1-E	\$ -					
19	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 17 + Line 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Line No.	Description	Reference	Actual September 2018	Actual October 2018	Actual November 2018	Actual December 2018	Actual January 2019	Actual February 2019	Review Period Twelve Months Ended Feb 2019
20	Purchased Power Agreements	Monthly Fuel Filing	\$ 96,632	\$ (15,529)	\$ 60,191	\$ 22,291	\$ (33,874)	\$ 38,071	\$ 587,151
21	Shared Solar Program	Monthly Fuel Filing	-	49	167	186	176	648	1,226
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ 96,632	\$ (15,480)	\$ 60,358	\$ 22,477	\$ (33,698)	\$ 38,719	\$ 588,377
23	Total System kWh Sales	Monthly Fuel Filing	5,427,393,740	5,150,522,556	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	62,669,145,490
24	DERP Avoided Costs (c/kWh)	Line 22 / Line 23 * 100	0.002	(0.000)	0.001	0.000	(0.001)	0.001	
25	SC Retail Sales kWh	Monthly Fuel Filing	511,359,659	578,449,399	505,054,037	445,338,979	605,279,111	555,508,005	6,409,881,605
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ 9,105	\$ (1,739)	\$ 6,453	\$ 2,073	\$ (3,632)	\$ 4,228	\$ 59,214
27	SC Lighting DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	SC Lighting kWh Sales	Monthly Fuel Filing	6,430,052	6,790,304	6,559,351	6,430,252	6,581,684	6,553,176	79,556,647
29	SC Lighting DERP Avoided Costs (c/kWh)	Line 27 / Line 28 * 100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	SC Lighting Rate Billed (c/kWh)	2018-1-E	0.000	0.000	0.000	0.000	0.000	0.000	
31	SC DERP Avoided Costs (Over) / Under Recovery	(Line 29 - Line 30)*Line 28 /100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	Adjustment(s)								\$ -
33	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 31 + Line 32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - LIGHTING
ACTUAL AND ESTIMATED COSTS MARCH 2018 - JUNE 2019

Harrington Exhibit 13
Page 8 of 8
Docket No. 2019-1-E

Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	Estimated March 2019	Estimated April 2019	Estimated May 2019	Estimated June 2019	Sixteen Months Ended June 2019
34	Purchased Power Agreements	DERP Model Output	\$ 29,819	\$ 39,730	\$ 42,730	\$ 39,730	\$ 739,161
35	Shared Solar Program	DERP Model Output	537	9,933	9,933	9,933	31,560
36	Total DERP Avoided Costs	Line 34 + Line 35	\$ 30,356	\$ 49,663	\$ 52,663	\$ 49,663	\$ 770,721
37	Total Projected System kWh Sales	WP8	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092	81,355,454,312
38	DERP Avoided Costs (¢/kWh)	Line 36 / Line 37 * 100	0.001	0.001	0.001	0.001	
39	Projected SC Retail Sales kWh	WP8	416,088,164	510,686,159	491,046,715	541,036,670	8,368,739,314
40	SC DERP Avoided Costs	Line 38 * Line 39 / 100	\$ 2,774	\$ 5,658	\$ 5,816	\$ 5,163	\$ 78,625
41	SC Lighting DERP Avoided Costs Allocated by Firm CP	Line 40 * Line 4	-	-	-	-	-
42	Projected SC Lighting kWh Sales	WP8a	6,548,241	7,639,378	7,703,947	8,021,643	109,469,856
43	SC Lighting DERP Avoided Costs (¢/kWh)	Line 41 / Line 42 * 100	0.000	0.000	0.000	0.000	
44	SC Lighting Rate Billed (¢/kWh)	2018-1-E	0.000	0.000	0.000	0.000	
45	SC DERP Avoided Costs (Over) / Under Recovery	(Line 43 - Line 44)*Line 42 /100	\$ -	\$ -	\$ -	\$ -	\$ -
46	Adjustment(s)						\$ -
47	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Prior Month Cumulative Balance + Line 45 + Line 46	\$ -	\$ -	\$ -	\$ -	\$ -
48	SC Projected Lighting kWh Sales Jul'19-Jun'20	WP8a					96,075,184
49	SC Lighting DERP Avoided Increment / (Decrement) (¢/kWh)	Line 47 / Line 48 * 100					0.000

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS
FOR THE 12 MONTHS JULY 2019 TO JUNE 2020

Harrington Exhibit 14
Docket No. 2019-1-E

Line No.	Class	Winter 2018 Firm Coincident Peak (CP) KWs	CP %
1	Residential	777,822	60.91%
2	General Service (non-demand)	81,290	6.37%
3	General Service (demand)	417,943	32.73%
4	Lighting	0	0.00%
5	Total SC	1,277,055	100.00%

Line No.	Description	Reference	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
6	Purchased Power Agreements	DERP Model Output	\$ 39,640	\$ 39,640	\$ 39,640	\$ 39,640	\$ 39,640	\$ 39,640
7	Shared Solar Program	DERP Model Output	9,910	9,910	9,910	9,910	9,910	9,910
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 49,550	\$ 49,550	\$ 49,550	\$ 49,550	\$ 49,550	\$ 49,550
9	Projected Total System Sales	WP8	5,953,609,386	6,010,985,735	5,482,284,590	4,671,693,496	4,595,842,719	5,172,638,730
10	DERP Avoided System Costs (¢/kwh)	Line 8 / Line 9 *100	0.001	0.001	0.001	0.001	0.001	0.001
11	Projected SC Retail Sales	WP8	615,370,381	630,455,795	602,829,492	524,692,648	500,969,344	552,701,752
12	SC DERP Avoided Costs	Line 10 * Line 11 /100	\$ 5,121	\$ 5,197	\$ 5,448	\$ 5,565	\$ 5,401	\$ 5,294

Line No.	Description	Reference	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	Billing Period Twelve Months Ended June 2020
13	Purchased Power Agreements	DERP Model Output	\$ 110,458	\$ 110,458	\$ 110,458	\$ 110,458	\$ 113,458	\$ 110,458	\$ 903,585
14	Shared Solar Program	DERP Model Output	9,860	9,860	9,860	9,860	9,860	9,860	118,622
15	Total DERP Avoided Costs	Line 13 + Line 14	\$ 120,318	\$ 120,318	\$ 120,318	\$ 120,318	\$ 123,318	\$ 120,318	\$ 1,022,207
16	Projected Total System Sales	WP8	5,679,535,820	5,466,072,140	5,022,976,178	4,423,919,449	4,396,701,438	5,136,235,584	62,012,495,267
17	DERP Avoided System Costs (¢/kwh)	Line 15 / Line 16 *100	0.002	0.002	0.002	0.003	0.003	0.002	0.002
18	Projected SC Retail Sales	WP8	605,095,272	594,590,939	555,942,153	512,389,178	493,993,336	541,309,853	6,730,340,143
19	SC DERP Avoided Costs	Line 17 * Line 18 /100	\$ 12,819	\$ 13,088	\$ 13,317	\$ 13,936	\$ 13,855	\$ 12,680	\$ 111,722
SC DERP Avoided Costs Allocated on Firm CP kW's									
20	Residential	Total Line 19 * Line 1						\$	68,047
21	General Service (non-demand)	Total Line 19 * Line 2							7,112
22	General Service (demand)	Total Line 19 * Line 3							36,563
23	Lighting	Total Line 19 * Line 4							-
24	Total SC	Sum Lines 20 through 23						\$	111,722
Projected SC Retail Sales kWh for the 12 month period									
25	Residential	WP8a							2,301,521,005
26	General Service (non-demand)	WP8a							299,773,076
27	General Service (demand)	WP8a							4,032,970,877
28	Lighting	WP8a							96,075,184
29	Total SC	Sum Lines 25 through 28							6,730,340,143
SC DERP Avoided Costs ¢/kWh									
30	Residential	Line 20 / Line 25 * 100							0.003
31	General Service (non-demand)	Line 21 / Line 26 * 100							0.002
32	Lighting	Line 23 / Line 28 * 100							0.000
33	Projected SC KW Sales (General Service demand)	WP8a							9,063,849
34	General Service (Demand) charge for SC DERP Avoided Costs	Line 22 / Line 33 * 100							0.000